



```
QY 61 APTPRGHVSSGNDPSLSYPLLIATLKOLETVEVAABHFYGDCKWNYIILTEAMKAVIR 120
Db 61 APTPRGHVSSGNDPSLSYPLLIATLKOLETVEVAABHFYGDCKWNYIILTEAMKAVIR 120
QY 121 LALFNSGYKMLQGGTPEEKNQSESNRAGNSGRNLGPHGLGNHNNHNPWNLEGR 180
Db 121 LALFNSGYKMLQGGTPEEKNQSESNRAGNSGRNLGPHGLGNHNNHNPWNLEGR 180
QY 181 AMSALSSFGQNARTTTSSTPGWSRRIHQQAVIEPPMIKERRRTMSEILLTEKGVNGALFA 240
Db 181 AMSALSSFGQNARTTTSSTPGWSRRIHQQAVIEPPMIKERRRTMSEILLTEKGVNGALFA 240
QY 241 IGEVLYITRPLIYVLFIRKYGVRSWIPWALSUSDVLGMGLLANSKWGEKSKQVHFSGP 300
Db 241 IGEVLYITRPLIYVLFIRKYGVRSWIPWALSUSDVLGMGLLANSKWGEKSKQVHFSGP 300
QY 301 EKDELRRKLIWALYLMRDPFTTKYTRQKLESSOKKLELIPLIGFLTEKIVELLEGAQSR 360
Db 301 EKDELRRKLIWALYLMRDPFTTKYTRQKLESSOKKLELIPLIGFLTEKIVELLEGAQSR 360
QY 361 YTYISGS 367
Db 361 YTYISGS 367

RESULT 2
US-10-268-441-10
; Sequence 10, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 10
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (26)
; NAME/KEY: UNSURE
; LOCATION: (71)
; NAME/KEY: UNSURE
; LOCATION: (110)
; NAME/KEY: UNSURE
; LOCATION: (143)
; NAME/KEY: UNSURE
; LOCATION: (153)
; NAME/KEY: UNSURE
; LOCATION: (173)

; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (177)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (192)
US-10-268-441-10
```

Query Match 54.3%; Score 1044.5; DB 14; Length 366;

Best Local Similarity 55.5%; Pred. No. 4.3e-99; Matches 211; Conservative 58; Mismatches 84; Indels 27; Gaps 6;

```
QY 1 MEAYKQWVRNREXVQSGFSPANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60
Db 1 MEAYKVRQNKKEFVHSMESLANGLXWLLPERFSESEIGPEAVTILGIIITALNEHIIDT 60
QY 61 APTPRGHVSSGNDPSLSYPLLIATLKOLETVEVAABHFYGDCKWNYIILTEAMKAVI 119
Db 61 A--PKQNTGTVXVPYFPYPLCLSAKDLETIVEVVAQQYIGDDKKWFLAXTEATKVLV 118
QY 120 LALFNSGYKMLQGGTPEEKNQSESNRAGNSGRNLGPHGLGNQ 169
Db 119 RLSFRKSGYKMLQGGTPEEKNQSESNRAGNSGRNLGPHGLGNQ 172
QY 170 NHHNPWNLEGRAMSALSFGQNARTTTSSTPGWSRRIHQQAVIEPPMIKERRRTMSEIL 229
Db 173 ---XPMXEGRALSALVRFGEKK--GSDPVLRLRVEHQQAATMEPTTSRVDRLTLLTIL 226
QY 230 TEKGVNGALFAIGEVLVITRPLIYVLFIRKYGVRSWIPWALSUSDVLGMGLLANSKW 287
Db 227 SERGLGALFFTIGEVLLISRLIYVLFIRKYGVRSWIPWALSUSDVLGMGLLANSKW 286
QY 288 WGEKSKQVHFSGPEKDELRRKLIWALYLMRDPFTTKYTRQKLESSOKKLELIPLIGFLT 347
Db 287 AGGKDRMPHLSALEKDEVRKRLLEVLXLMRDPFTTKYTRQKLESSOKKLELIPLIGFLT 346
QY 348 EKIVELLEGAQSRITYISGS 367
Db 347 AKLVLLIIGAQRITYISGS 366
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## RESULT 3

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US-10-268-441-8
; Sequence 8, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 8
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (26)
```

```

; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (71)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (110)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (143)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (153)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (173)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (177)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (192)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (197)
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (204)
US-10-268-441-8

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Query Match 53.7%; Score 1032.5; DB 14; Length 366;
Best Local Similarity 55.3%; Pred. No. 7.5e-98;
Matches 210; Conservative 57; Mismatches 86; Indels 27; Gaps 6;

Qy 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60
Db 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60

Qy 61 APTPRGHVSSGNDPSLSYPLLIALLKDLTWEVAAAEHFYV-DKKNYIILTEAMKAVI 119
Db 61 A--PQNITGSVPXPYPYPLCLSLKDLTWEVAAAEHFYVQYGDCKMFLAXTATKVLV 118

Qy 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESQ-----NRAGNSGRNLGPHGLNQ 169
Db 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESQ-----NRAGNSGRNLGPHGLNQ 169

Qy 170 NHPNPNLEGRAMSALSGFQGNARTTSTPGWRRRIHQOQAVIEPPMIKERRRTMSLL 229
Db 170 NHPNPNLEGRAMSALSGFQGNARTTSTPGWRRRIHQOQAVIEPPMIKERRRTMSLL 229

Qy 173 ---XPMXEGRALSALVRFGKXK--GSDXVWLRRVXHQOATMEPTTSRVDRLTLIL 226
Db 173 ---XPMXEGRALSALVRFGKXK--GSDXVWLRRVXHQOATMEPTTSRVDRLTLIL 226

Qy 230 TEKGUNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSVDLGMGLLA--NSKW 287
Db 230 TEKGUNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSVDLGMGLLA--NSKW 287

Qy 288 WGEKSKQVHSGPDKDELRRKLWALYLMRDPFTTKYTRQKLESSOKKLELIGFLT 347
Db 288 WGEKSKQVHSGPDKDELRRKLWALYLMRDPFTTKYTRQKLESSOKKLELIGFLT 347

Qy 348 EKIVLEGAQSRYYTISGS 367
Db 348 EKIVLEGAQSRYYTISGS 367

```

```

RESULT 4
US-10-268-441-14
; Sequence 14, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott

```

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; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 14
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-268-441-14

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Query Match 47.6%; Score 915; DB 14; Length 373;
Best Local Similarity 47.9%; Pred. No. 1.1e-85;
Matches 184; Conservative 78; Mismatches 94; Indels 28; Gaps 8;

Qy 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60
Db 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTTINEHIEN 60

Qy 61 APTPRGHVSSGNDPSLSYPLLIALLKDLTWEVAAAEHFYV-DKKNYIILTEAMKAVI 119
Db 61 A--PQNITGSVPXPYPYPLCLSLKDLTWEVAAAEHFYVQYGDCKMFLAXTATKVLV 118

Qy 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESQ-----NRAGNSGRNLGPHGLNQ 175
Db 120 RLALFRNSGYKMLQGGTTPNEEKDSNQSESQ-----NRAGNSGRNLGPHGLNQ 175

Qy 176 -----NLEGRAMSALSGFQGNARTTSTPGWRRRIHQOQAVIEPPMIKERRRT 224
Db 176 -----NLEGRAMSALSGFQGNARTTSTPGWRRRIHQOQAVIEPPMIKERRRT 224

Qy 225 MSELLTEKGUNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSVDLGMGLLA 284
Db 225 MSELLTEKGUNGALFAIGVLYITRPLIYVLFIRKYGVRSWIPWALSVDLGMGLLA 284

Qy 230 LATWSSKSGISGRFLMGEAVHIFRPLVYLLIRFGIKSWTPWLVSJAVELASLGIHSH 289
Db 230 LATWSSKSGISGRFLMGEAVHIFRPLVYLLIRFGIKSWTPWLVSJAVELASLGIHSH 289

Qy 285 SKWGEKSKQVHSGPDKDELRRKLWALYLMRDPFTTKYTRQKLESSOKKLELIPLI 343
Db 285 SKWGEKSKQVHSGPDKDELRRKLWALYLMRDPFTTKYTRQKLESSOKKLELIPLI 343

Qy 344 GELTEKIVLEGAQSRYYTISGS 367
Db 344 GELTEKIVLEGAQSRYYTISGS 367

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RESULT 5
US-10-268-441-6
; Sequence 6, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607

```

```

; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Oryza sativa
US-10-268-441-6

Query Match      47.4%; Score 910.5; DB 14; Length 374;
Best Local Similarity 47.4%; Pred. No. 3.4e-85;
Matches 181; Conservative 82; Mismatches 96; Indels 23; Gaps 7;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTINHHIEN 60
DB 1 MEAYKLWVRNRDLVRSLESLANGLTWILPERFANSEIAPEAVYALGIVSSVNGHIIE- 59

QY 61 APTPRGHVSSGNDPSLSYPLLIALLKOLETVVEVAABHYG-DKKWNYIILTEAMKAVI 119
DB 60 --TPTDGGQTLASKEQSIWPSLVSVLKDIEAVVEAAQHFVGGDRKWSFLAVTEAVKAGV 117

QY 120 RLALFRNSGYKMLGGGTPNEEK-----DSNOSQNRAG-----NSGRNLGPHGL 166
DB 118 RLAAFGESYKMLGGGEVANEERINILDENFGAKSNGVPIVYPNGHFQNGHGVASNGL 177

QY 167 GNQNHNPWNLGRAMSALSSFGQNAITTSSTPGWSRRIHQQAIVIEPPMIKERRRTWS 226
DB 178 DGKAGFVSKSLEGRAVAALNKFQNAKMT--SDPMWMMKALPPP---DPPAMVVEKPTLA 232

QY 227 ELLTBKGVNGALFATGEVLYITRPLIYVLFIRKYGVRSWIPWALSISVDLTGMGLANSK 286
DB 233 SIWSKAGTSGRLFLGVEVHIIFRPLVYVLLIRKFKISWTPWLSLAVETSLGHSRAT 292

QY 287 MWGEKSKQVH-FSGPEKDELRRKLIWALYLMRDPFFTKYTRQKLESSOKLELIPLIGF 345
DB 293 DLHQGGKQVHQLSSAERDELKRRKMWALYVNRDPFFTKYTRKHLQKAEKVLDPVPLIGF 352

QY 346 LTEKIVELLEGASQRYTYISGS 367
DB 353 LTGKLVELVEGAQTRYTYTSGS 374

RESULT 6
US-10-268-441-2
; Sequence 2, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Feizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: BB1392 US NA
; CURRENT APPLICATION NUMBER: US/10/268,441
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 2
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Zea mays

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US-10-268-441-2

Query Match      45.3%; Score 871.5; DB 14; Length 374;
Best Local Similarity 47.1%; Pred. No. 3.7e-81;
Matches 180; Conservative 75; Mismatches 104; Indels 23; Gaps 7;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAFLGIFTINHHIEN 60
DB 1 MEAYKLWVRNRDLVRSLESLANGLTWILPERFANSEIAPEAVYALGIVSSVNGHIID- 59

QY 61 APTPRGHVSSGNDPSLSYPLLIALLKOLETVVEVAABHYG-DKKWNYIILTEAMKAVI 119
DB 60 APTENHSPAS--KEQSIWGLVSVYKDVAVVEAAQHFVGGDRKWSFLAVTEAVKAGV 117

QY 120 RLALFRNSGYKMLGGGTPNEEKDSNOSQNRAG-----SGRNLGPHGL 166
DB 118 RLAAFGESYKMLGGGEVNEEVTVLENNYGVNGVPAIYPMGDGAENGKHTWAKGL 177

QY 167 GNQNHNPWNLGRAMSALSSFGQNAITTSSTPGWSRRIHQQAIVIEPPMIKERRRTWS 226
DB 178 DGKAGFVSKSLEKRAVAALNKFGENAK--WMSDPMWRR---PQTPPTVMVAEKPTLT 232

QY 227 ELLTBKGVNGALFATGEVLYITRPLIYVLFIRKYGVRSWIPWALSISVDLTGMGLANSK 286
DB 233 SIWSTKSGTGRFLVGLGEVHIIFRPLVYVLLIRKFKISWTPWLSLAVETSLGHSRAT 292

QY 287 MWGEKSKQVH-FSGPEKDELRRKLIWALYLMRDPFFTKYTRQKLESSOKLELIPLIGF 345
DB 293 DLNHLRGKQVHQLSSAERDELKRRKMWALYVNRDPFFASYSKSHLLKAEQFLNPVPLIGF 352

QY 346 LTEKIVELLEGASQRYTYISGS 367
DB 353 LTGKLVELLEGQTRYTYTSGS 374

RESULT 7
US-10-437-963-131434
; Sequence 131434, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 131434
; LENGTH: 349
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_3349C.1.pep
US-10-437-963-131434

Query Match      41.4%; Score 795; DB 16; Length 349;
Best Local Similarity 43.5%; Pred. No. 2.8e-73;
Matches 170; Conservative 70; Mismatches 85; Indels 66; Gaps 10;

QY 1 MEAYKQWVRNREYVQSGFANG-----GLTWLLPEKFSASEIGPEAVTAFLIGF 50
DB 1 MEAYKLWVRNRDLVRSLESLANDITHLKYFYQGLTWILPERFANSEIAPEAVYALGIV 60

QY 51 TTINHHIENAPTRPGHVGSSGNDPSLSYPLLIALLKOLETVVEVAABHYG-DKKWNYI 109
DB 61 SSVNQHIIE---TPTDGGQTLASKEQSIWPSLVSVLKDIEAVVEAAQHFVGGDRKWSFL 117

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## RESULT 9

```

RESULT 10
US-10-424-599-238795
; Sequence 238795, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 238795
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(190)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_57657C.1.pgp
US-10-424-599-238795

```

Query Match 26.2%; Score 503.5; DB 12; Length 190;  
Best Local Similarity 53.9%; Pred. No. 1.8e-43;  
Matches 110; Conservative 24; Mismatches 41; Indels 29;

QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
DB 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
QY 61 APTPRGHVSSGNDPSLPYLLIALKLETVVEVAABHFYV-DKKWNYIILTEAMKA-- 117  
DB 61 A--PKQNTGSKVPSFPYPLCLSAKLELVEVVAQQYGGDDKKWFLAVTEATKXSR 118  
QY 118 --VIRLALFRNSGYKMLQGGTTPNEKDSNOSQ-----NRAGNSGRNLGPHG 165  
DB 119 IMVRELSLFRKSGYKMLQGGTTPNEKDSNOSQ-----NRAGNSGRNLGPHG 176  
QY 166 LGNQNHHPNLEGRAMSAISFG 189  
DB 177 -----NPMNQGRALSA---FG 190

## RESULT 11

US-10-437-963-131478  
; Sequence 131478, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 131478  
; LENGTH: 148  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)-(148)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_3353C.1.pep  
US-10-437-963-131478

Query Match 22.1%; Score 425.5; DB 16; Length 148;  
Best Local Similarity 51.7%; Pred. No. 1.5e-35;  
Matches 75; Conservative 39; Mismatches 30; Indels 1; Gaps 1;  
QY 224 TMSLTERGVANGALFAIGEVLYITRPLIYVLFIRKYGVRSWIPMAIS:SVDTLGMGLLA 283  
DB 4 TLASISWAGISGRLPXYGEVHIFRPLLYVLLIKFKGKSWTPWLVSLAVETSLGHS 63  
QY 284 NSKWCEKSKQVH-FSGPEKDELRRKLIALWYLMRDPFFTKYTRQKLESSQKLELPL 342  
DB 64 RATDLHQGGKQVHLSAERDELKRRMMWALYLMRDPFFTKYTRQKLEKAEKVLDPVPL 123  
QY 343 IGFLEKIVELLEGAQSRVYISGS 367  
DB 124 IGFLEKIVELLEGAQSRVYISGS 148

## RESULT 12

US-10-767-701-41526  
; Sequence 41526, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 41526  
; LENGTH: 144  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C43806\_1.pep  
US-10-767-701-41526

Query Match 21.6%; Score 416; DB 16; Length 144;  
Best Local Similarity 56.9%; Pred. No. 1.4e-34;  
Matches 82; Conservative 28; Mismatches 30; Indels 4; Gaps 3;  
QY 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 60  
DB 1 MEAYKQWVRNREYVQSGFANGLTWLLPKFSASEIGPEAVTAFLGIFTTINEHIEN 59  
QY 61 APTPRGHVSSGNDPSLPYLLIALKLETVVEVAABHFYV-DKKWNYIILTEAMKA 119  
DB 60 APTENHSFAS--KEQSIPEWGLVSVLKQVEAVVEAQAQHFVGGDRKWSFLAVTEAVKAGV 117  
QY 120 RLALFRNSGYKMLQGGTTPNEEK 143  
DB 118 RLALFRNSGYKMLQGGTTPNEEK 141

## RESULT 13

US-10-767-701-41477  
; Sequence 41477, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 41477  
; LENGTH: 130  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C40655\_1.pep  
US-10-767-701-41477

Query Match 20.2%; Score 387.5; DB 16; Length 130;  
Best Local Similarity 53.1%; Pred. No. 1.1e-31;  
Matches 69; Conservative 31; Mismatches 29; Indels 1; Gaps 1;  
QY 239 FAIGEVLYITRPLIYVLFIRKYGVRSWIPMAIS:SVDTLGMGLANSKWGKSKQV-HF 297  
DB 1 FVLGEVHIFRPLVYLLIRKFGIKSWTPWLVSLAVETSLGHSHTDLNHLGKVHHL 60  
QY 298 SGPEKDELRRKLIALWYLMRDPFFTKYTRQKLESSQKLELPLTGPTEKIVELLEGA 357  
DB 61 SSAERDELKRRMMWALYLMRDPFFTKYTRQKLEKAEQVLPVPLIGFLTKLIELLEGV 120  
QY 358 QSRVYISGS 367  
DB 121 QSRVYISGS 130

## RESULT 14

US-10-268-441-4

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Matches      32; Conservative    7; Mismatches   10; Indels       0; Gaps        0;
Qy  1 MEAYKQWNRNRYVSGFSFANGLTWLLDEKTSASGIGPAVTAFGI 49
     |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db  1 MEAYKKWRQNKEFVHSLXSLANVLTLWLFERVSSEKIGPEAITILGI 49
                                     |::|::|::|::|::|::|
Search completed: September 22, 2004, 12:37:23
Job time : 132 secs
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Query Match	8.9%;	Score 171;	DB 12;	Length 50;
Best Local Similarity	65.3%;	Pred. No. 7.2e-10;		

Blank sheet

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 22, 2004, 11:49:56 ; Search time 33 Seconds  
(without alignments)  
574.143 Million cell updates/sec

Title: US-09-545-072A-2  
Perfect score: 1922  
Sequence: 1 MEAYKQWRNREYVQSFSGS.....EKIVELLEGQSRVYTISSG 367

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCFUS COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	98	5.1	838	4	US-09-489-039A-9864
2	93	4.8	406	4	US-09-252-991A-19757
3	89.5	4.7	1257	2	US-08-750-152A-2
4	89	4.6	3165	2	US-08-459-146-3
5	89	4.6	3165	2	US-08-459-065-3
6	88	4.6	1489	6	5183745-2
7	88	4.6	1706	4	US-08-669-785-2
8	87.5	4.6	302	2	US-08-893-853-3
9	87.5	4.6	302	3	US-09-113-921-3
10	87.5	4.6	302	4	US-09-451-067-3
11	86.5	4.5	1012	2	US-08-475-891A-4
12	86.5	4.5	1025	2	US-08-567-375-4
13	86.5	4.5	1025	2	US-08-587-680A-4
14	85.5	4.4	2595	3	US-09-036-987A-2
15	85.5	4.4	2595	3	US-09-370-700-2
16	85.5	4.4	2595	4	US-09-603-207-2
17	85	4.4	424	4	US-09-198-452A-825
18	84.5	4.4	4150	3	US-09-428-517-2
19	83	4.3	757	4	US-09-252-991A-20231
20	83	4.3	761	4	US-09-328-352-5650
21	82.5	4.3	443	4	US-09-134-001C-3148
22	82.5	4.3	825	4	US-09-489-039A-11003
23	82	4.3	304	4	US-09-134-000C-4520
24	81.5	4.2	404	4	US-09-489-039A-10542
25	81.5	4.2	485	4	US-09-134-000C-6295
26	81.5	4.2	886	4	US-09-252-991A-24378
27	81.5	4.2	1250	1	US-08-441-139-9

28	81	4.2	710	4	US-09-252-991A-27309	Sequence 27309, A
29	81	4.2	831	4	US-03-252-991A-24901	Sequence 24901, A
30	80.5	4.2	234	4	US-09-199-637A-61	Sequence 61, Appl
31	80.5	4.2	248	4	US-09-523-263B-15	Sequence 15, Appl
32	80.5	4.2	371	4	US-09-543-681A-4389	Sequence 4389, Ap
33	80.5	4.2	524	1	US-08-447-500-24	Sequence 24, Appl
34	80.5	4.2	524	1	US-08-454-097-24	Sequence 24, Appl
35	80.5	4.2	524	1	US-08-453-866-24	Sequence 24, Appl
36	80.5	4.2	524	3	US-08-185-359-24	Sequence 24, Appl
37	80.5	4.2	747	2	US-08-895-522-1	Sequence 1, Appl
38	80.5	4.2	747	3	US-09-195-391-1	Sequence 1, Appl
39	80	4.2	730	2	US-08-696-944-2	Sequence 2, Appl
40	80	4.2	1085	4	US-09-328-352-4713	Sequence 4713, Ap
41	79.5	4.1	821	1	US-07-928-464-2	Sequence 2, Appl
42	79.5	4.1	821	1	US-08-003-311B-2	Sequence 2, Appl
43	79.5	4.1	821	1	US-08-261-432-2	Sequence 2, Appl
44	79.5	4.1	821	5	PCT-US93-07347-2	Sequence 2, Appl
45	79.5	4.1	2442	4	US-09-514-247A-10	Sequence 10, Appl

## ALIGNMENTS

### RESULT 1

US-09-489-039A-9864  
; Sequence 9864, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 9864  
; LENGTH: 838  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-9864

Query Match		5.1%	Score 98;	DB 4;	Length 838;
Best Local Similarity		21.0%	Pred. No. 0.17;		
Matches		78;	Conservative	40;	Mismatches 132; Indels 122; Gaps 16;
QY	26	TWLLPEKFSASEIGPEAVTAFLGIFTTINEHITENAPTRGHVGGSSNDPSLSYPLLI	AI	85	
DB	306	TYTTFGAFVDDIPLYPTASSGNLEAVKESDGEIRRTQPYASVTSMQREGSLKYNLV	---	362	
QY	86	LKDLETVVEAAEHFYGDKKWNYIILTEAMKAVIRIALFERNISGYKMLQGGTETNEE	KDS	145	
DB	363	-----AGRYHSD-----ASQRLMWQLSLMRGFAHNLTLFG-----	---	395	
QY	146	NQSESQ--NPAGNSGRNLGPHG-----LCNQNHHPNLEGRAMSALSFGQNAKTT	TS	197	
DB	396	LQSAAYHNLVSGAGQGLGEAGALSQLLNARDHQDDPIDGRWOLQYSKGFDRLGTO	F	455	
QY	198	STPGWRRRTHQOQAVIEPPMKERRRRTTSGELLTEKGVNGALFAIGE---VLXITR	---	250	
DB	456	TFTGW--RYSHQ-----RYATLSEAFSSPGSEDDQLQSDNNKATLQITASQSLP	---	502	
QY	251	LIYVLFIR---KYGVRSWIPWALSISVDTLGMGLANSKWMGEKSKQVH-----	---	296	
DB	503	YDITLVLSLDQDSY-----WSGGASQRTANNGI-----SSQVHGIAWSLSYSD	---	545	
QY	297	---FSGPEKDELRRKLIWALYIMRDPFTTKYTRQKLESQKKLEIPIPIGFLUTEKIV	EL	353	
DB	546	SRSSHGDEEDD-----EPHGDKVVTLTSL-----VPL-----SHL	---	575	
QY	354	LEGAQSRVYIS	365		

Db 576 LPSYAGYTLTS 587

RESULT 2

US-09-252-991A-19757

Sequence 19757, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 19757

LENGTH: 406

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-19757

Query Match 4.8%; Score 93; DB 4; Length 406;

Best Local Similarity 26.8%; Pred. No. 0.19; Mismatches 85; Indels 58; Gaps 14;

Matches 62; Conservative 26;

QY 155 GNSGRNL---GPHGLGNQNH---NPWNLEGR--AMSALSSFGQNAARTTSTP 200

DB 206 GDRDLVGSVPDALGSTANYLLKAGWRTGQPGWYEVKVPADFPASLAGRGRQPLSA-- 263

QY 201 GW-----SRRIHQQAVIPPMIKERRRTMSELLTEKGVNGALFAIGEVLVYTRPLIYVLF 256

DB 264 -WWAREVRVDGQPL---PGDEK-----AAILLPAGAGGPAF-----LVYRNYDAIY--- 307

QY 257 IRKYGVRSWIPWALSVDTL--GMGLLANSKWGKSKQVHFSGPGRDELRRRLIWA 314

DB 308 --SYNAESYALAIALLSDRLGGGLVAS---WPT-----DDPGISRLERKQLQAL 355

QY 315 YLMR-----DPFFTKYTRQKLESSQKLELIPLIGLFTKXIVELLEGAQ 358

DB 356 -LARGYDICEADLIGTSTRKAIQAEQKRLGTPADGRAGRKILEALKAQ 405

RESULT 3

US-08-750-152A-2

Sequence 2, Application US/08750152A

Patent No. 5977331

GENERAL INFORMATION:

APPLICANT: ASAKURA, YOKO

APPLICANT: KIMURA, EIICHIRO

APPLICANT: ABE, CHIZU

APPLICANT: KAWAHARA, YOSHIO

APPLICANT: NAKAMATSU, TSUYOSHI

TITLE OF INVENTION: ALPHA-KETOGLUTARATE DEHYDROGENASE GENE

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.

STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR

CITY: ARLINGTON

STATE: VA

COUNTRY: USA

ZIP: 22152

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/750,152A

FILING DATE:

Db 576 LPSYAGYTLTS 587

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: NORMAN F. OBLON

REGISTRATION NUMBER: 24,618

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-413-3000

TELEFAX: 703-413-2220

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1257 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-750-152A-2

Query Match 4.7%; Score 89.5; DB 2; Length 1257;

Best Local Similarity 20.2%; Pred. No. 2.8;

Matches 62; Conservative 37; Mismatches 123; Indels 85; Gaps 13;

QY 65 RGHVGSSGNDPSLSYPLLIIALLKOLETVVEVAAEHFYGDKKWNVIILTEAMKAVIRLALF 124

DB 781 RGH--NEADDPSTQPKMYELITGRETVRQYTEDLLGRGD---LSNEDAEAVVR--DF 832

QY 125 RNSGYKMLLOGETPFNEEKDSNQESQNRAGNSGRNLGPHGLGNQ----- 169

DB 833 HD-----QMSVFNVEKGGKQAEATGITSQKLPHELTNISREELLELGOAFAN 885

QY 170 -----NHN-----PNWLEGRAMSALSFGQNAARTTSTTPGWSR 204

DB 886 TPEGNYHPRVAPVAKKVVSVTEGGIDWANG-ELLAFGLSANGSLVRLAGED---SR 940

QY 205 R--IQHQQAVTEPPMKERRRTMSELLTEKGVNGALFAIGEVLVYTRPLIYVLFIRKYG 262

DB 941 RGTFTQRAVAIDPATAEFPNPLHQAQSGKNNGK-----LVYNSALTEYAGMGFEYGY 995

QY 263 R-----SWIPWALSVDTLGMLL-----ANSKWGKSKQV-----HFSQPEKDE 304

DB 996 SVGNEDSVVWAEAFGDFPANGAQTIIIDYVSGEAKWQTSKLIILLPHGEGQGFDRSS 1055

QY 305 LRRRLKI 311

DB 1056 ARIERFL 1062

RESULT 4

US-08-459-146-3

Sequence 3, Application US/08459146

Patent No. 5866405

GENERAL INFORMATION:

APPLICANT: Choi, Gil Ho

APPLICANT: Nuss, Donald Lee

TITLE OF INVENTION: Genetically Engineered Transmissible

TITLE OF INVENTION: Hypovirulence

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: George M. Gould, Esq., Hoffmann-La Roche Inc.

STREET: 340 Kingsland Street

CITY: Nutley

STATE: New Jersey

COUNTRY: U.S.A.

ZIP: 07110

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/459,146

FILING DATE: 02-JUN-1995

CLASSIFICATION: 435

;;  
;; PRIORITY APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/832,117  
;; FILING DATE: 06-FEB-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Roseman, Catherine R  
;; REGISTRATION NUMBER: 34,240  
;; REFERENCE/DOCKET NUMBER: 8589  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (201) 235-6208  
;; TELEFAX: (201) 235-3500  
;; INFORMATION FOR SEQ ID NO: 3:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 3165 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHETICAL: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Endothia parasitica (Cryptonectria  
;; ORGANISM: parasitica)  
;; STRAIN: EP713  
US-08-459-146-3

Query Match 4.6%; Score 89; DB 2; Length 3165;  
Best Local Similarity 20.3%; Pred. No. 14;  
Matches 82; Conservative 49; Mismatches 149; Indels 124; Gaps 18;  
QY 4 YKQW--VVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAF-----LGITTT 52  
Db 1757 FEQMPVFADRDIM-----LPKGVELYIKKEYSA---GTPFISSFYKSRKALKQAGVMDV 1808  
QY 53 INEHIENAPTGRGHVSSGNDPSLSY-----PLLIALKDLTWTVEVAEHF 100  
Db 1809 IRKNALECI-----STGKYPTQFYHAFKSAQVPGQPLLAPMKDLRTVVEDLSAY 1860  
QY 101 YGDKKNYIILTEAMKAVIRLALFRNSGYKMLLOGGETPNEEKDSNSESQN-----RAGN 156  
Db 1861 MVDQ-----IFQIEANKRITWETYGAGSGMPLSQSMARIWDELHDLRKREGGQFIADATA 1916  
QY 157 SGRNLGP---HG-----LGNQNHHPNWNLEGRAMSALSFG-----ONARTTTSSTPGWS 203  
Db 1917 YDSNCKPALFHGAGKLVELGFGQHPG---KGRQFAVQVQCKFAMQNAWMVGITEPSYT 1973  
QY 204 RRIHQOQAVTEPPMIKERR-----RTMSELITEKGVNGALFAIGEVLYITRPLIYVLFIRK 259  
Db 1974 ALTFHVPDVAVRHELESKYPAHEATFSELLAHNNVN-----VTE 2012  
QY 260 YGVRSW-----IPWALSIVDTLGMGLLANSKWKWGEKSKQVHFSGPEKDELRR 307  
Db 2013 WKRLSWEERKACARDMQAVPGKVFELTNDPALR---LQSSWQGSPTTE-----PKRDE--- 2062  
QY 308 RKLWALYLMRDPFFTKYTRQKLESSQKLELPLIGLFLTEKIV 351  
Db 2063 -----FRKYQTYFYDSKAAMREDIKRIVFANREVI 2092

RESULT 5  
US-08-459-065-3  
Sequence 3, Application US/08459065  
Patent No. 5882642  
GENERAL INFORMATION:  
APPLICANT: Choi, Gil Ho  
APPLICANT: Nuss, Donald Lee  
TITLE OF INVENTION: Genetically Engineered Transmissible  
TITLE OF INVENTION: Hypovirulence  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESS: George M. Gould, Esq., Hoffmann-La Roche Inc.  
STREET: 340 Kingsland Street  
CITY: Nutley  
STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07110

;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC Compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent In Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/459,065  
;; FILING DATE: 02-JUN-1995  
;; CLASSIFICATION: 435  
;; PRIORITY APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/832,117  
;; FILING DATE: 06-FEB-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Roseman, Catherine R  
;; REGISTRATION NUMBER: 34,240  
;; REFERENCE/DOCKET NUMBER: 8589  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (201) 235-6208  
;; TELEFAX: (201) 235-3500  
;; INFORMATION FOR SEQ ID NO: 3:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 3165 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHETICAL: NO  
;; ORIGINAL SOURCE:  
;; ORGANISM: Endothia parasitica (Cryptonectria  
;; ORGANISM: parasitica)  
;; STRAIN: EP713  
US-08-459-065-3

Query Match 4.6%; Score 89; DB 2; Length 3165;  
Best Local Similarity 20.3%; Pred. No. 14;  
Matches 82; Conservative 49; Mismatches 149; Indels 124; Gaps 18;  
QY 4 YKQW--VVRNREYVQSGFANGLTWLLPEKFSASEIGPEAVTAF-----LGITTT 52  
Db 1757 FEQMPVFADRDIM-----LPKGVELYIKKEYSA---GTPFISSFYKSRKALKQAGVMDV 1808  
QY 53 INEHIENAPTGRGHVSSGNDPSLSY-----PLLIALKDLTWTVEVAEHF 100  
Db 1809 IRKNALECI-----STGKYPTQFYHAFKSAQVPGQPLLAPMKDLRTVVEDLSAY 1860  
QY 101 YGDKKNYIILTEAMKAVIRLALFRNSGYKMLLOGGETPNEEKDSNSESQN-----RAGN 156  
Db 1861 MVDQ-----IFQIEANKRITWETYGAGSGMPLSQSMARIWDELHDLRKREGGQFIADATA 1916  
QY 157 SGRNLGP---HG-----LGNQNHHPNWNLEGRAMSALSFG-----ONARTTTSSTPGWS 203  
Db 1917 YDSNCKPALFHGAGKLVELGFGQHPG---KGRQFAVQVQCKFAMQNAWMVGITEPSYT 1973  
QY 204 RRIHQOQAVTEPPMIKERR-----RTMSELITEKGVNGALFAIGEVLYITRPLIYVLFIRK 259  
Db 1974 ALTFHVPDVAVRHELESKYPAHEATFSELLAHNNVN-----VTE 2012  
QY 260 YGVRSW-----IPWALSIVDTLGMGLLANSKWKWGEKSKQVHFSGPEKDELRR 307  
Db 2013 WKRLSWEERKACARDMQAVPGKVFELTNDPALR---LQSSWQGSPTTE-----PKRDE--- 2062  
QY 308 RKLWALYLMRDPFFTKYTRQKLESSQKLELPLIGLFLTEKIV 351  
Db 2063 -----FRKYQTYFYDSKAAMREDIKRIVFANREVI 2092

RESULT 6  
5183745-2  
Patent No. 5183745  
APPLICANT: DANCHIN, ANTOINE; GLASER, PHILIPPE; KRIN, EVELYN;  
BARZU, OCTAVIEN; LADANT, DANIEL; ULLMAN, AGNES  
TITLE OF INVENTION: ADENYL CYCLASE DERIVATIVES AND THEIR  
BIOLOGICAL USES  
NUMBER OF SEQUENCES: 13

SEQUENCE CHARACTERISTICS:

TOPOLOGY: linear

; INFORMATION FOR SEQ  
: SEQUENCE CHARACTERISTICS

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; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:

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; MOLECULE TYPE: protein
US-08-893-853-3

Query Match      4.6%; Score 87.5; DB 2; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKLETVVEVAAEHFYGDKKWNYIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRL-----EPWNHL-----GSSGVDRHLEP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRTPQDSGSRQRRPPQDSSGRRRPPQGGSGRQRRGPPQGGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RPPQSSGRRRRSPQDSGRRRRSPQNSGRRRTTPOSSGRRRAHONS-----236

QY 217 MIKERRR 223
DB 237 GSRQRRR 243

RESULT 9
US-09-113-921-3
; Sequence 3, Application US/09113921
; Patent No. 6193981
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., P.O. Box 457
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,921
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; FILING DATE: 11-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GGP2AUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-113-921-3

Query Match      4.6%; Score 87.5; DB 3; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKLETVVEVAAEHFYGDKKWNYIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRL-----EPWNHL-----GSSGVDRHLEP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRTPQDSGSRQRRPPQDSSGRRRPPQGGSGRQRRGPPQGGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RPPQSSGRRRRSPQDSGRRRRSPQNSGRRRTTPOSSGRRRAHONS-----236

QY 217 MIKERRR 223
DB 237 GSRQRRR 243

RESULT 10
US-09-451-067-3
; Sequence 3, Application US/09451067
; Patent No. 6525179
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., P.O. Box 457
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/451,067
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/113,921
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GGP2AUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-451-067-3

Query Match      4.6%; Score 87.5; DB 4; Length 302;
Best Local Similarity 24.1%; Pred. No. 0.49;
Matches 45; Conservative 19; Mismatches 62; Indels 61; Gaps 7;

QY 64 PRGHVSSGNDPSLSYPLLIALKLETVVEVAAEHFYGDKKWNYIILTEAMKAVIRLAL 123
DB 91 PWEHPGSSGVDPRL-----EPWNHL-----GSSGVDRHLEP 121

QY 124 FRNSGYKMLLOGETPNEE-----KDSNQSESQNRAGNSG---RNLGPHGLGN-QN 170
DB 122 WKHPGSGDLRQRRTPQDSGSRQRRPPQDSSGRRRPPQGGSGRQRRGPPQGGSGRQR 181

QY 171 HHNPWNLEG-----RAMSALSSFGQNRATTTSTPGWSRRIHQQAIVIEPP 216
DB 182 RPPQSSGRRRRSPQDSGRRRRSPQNSGRRRTTPOSSGRRRAHONS-----236

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QY 8 VWRREYVQSGSFANGTLWLPKFKSASEIGPEAVTAFGLFTTINEHIE--NAPTR 65
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QY 66 GHVSSGNDPSLSVPLLLTALIKDLSTVVEAAEHFYGDKNWYIILTEA---MKAVIRUA 122
Db 285 FHG-----KIPASVANASHL-TVQIYGNLFSG-----IITSGFGLRNLTELY 327
QY 123 LFRNSGYKMLQGGTPEENKDSNOSQNRAGNSGRNLGPHGLGNQNHNPWNLEGRAM 182
Db 328 LWRN---LFQ---TREQDDWGFTSDLTNC SKLOTNLGNLGGVLPNSFSNLS----- 375
QY 183 SALSFGQVARTTSSTP---GWSRRICHOQAVIEP-----PMIKERRRTMSSELLT-EKG 233
Db 376 TSLSLALELNLKTIKTSIPKDIKGLQHLVLCNNNFRGSLPSSLRUKNLGILLAYENN 435
QY 234 VNGAL-PAIGEVILITRPLIVLFRKYGVRSWIPWALSVDITLGMGLLANSKWWGEKS 292
Db 436 LSGSIPAIAGN---LTLELNILLGNKFS--GWIEFTLSNLTNLSLGLSTN----- 482
QY 293 KQVHSGPEKDELRRRLIWALYLMRDPFTKYTRQKLESS--QKKLELILPLIGF----- 345
Db 483 --NLSGPIPSLEFN---IQTLSIM-----INVSKNLEGSIPQIIGHLKNLVEPFAESN 531
QY 346 LTFKIVELLEGAO-SRITY-----ISGS 367
Db 532 RLSGKIPNTLGDCCQLLYLYLQNNLLSGS 560

RESULT 13
US-08-587-680A-4
; Sequence 4, Application US/08587680A
; Patent No. 5977434
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Szabo, Veronica
; TITLE OF INVENTION: Procedures and Materials for Conferring
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/587,680A
; FILING DATE: 17-JAN-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,891
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,645
; FILING DATE: 29-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/567,375
; FILING DATE: 04-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774

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Search completed: September 22, 2004, 12:26:50  
Job time : 35 secs

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/036,987A
FILING DATE: 09-MAR-1998
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Stuart, Donald R
REGISTRATION NUMBER: 28,479
REFERENCE/DOCKET NUMBER: 50,608
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317)337-4816
TELEFAX: (317)337-4847
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2595 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-036-987A-2

Query Match          4.4%; Score 85.5; DB 3; Length 2595;
Best Local Similarity 19.3%; Pred.No. 24;
Matches              78; Conservative 51; Mismatches 138; Indels 137; Gaps 17;

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Db      1766 WYRQVREPVR----FADGQVALVEHDVAIVVELGPDGALSAL-----IQECVAS 1811

QY      66 GHVGSSGNPDSPSLIILAKDLETWVEVAAEHFY---GDKKW-NYIILTAMKAVTRL 121
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QY      122 ALFRNSGYKMLOGGTPEEKDSNGSESONRAGSNRNLGPHGLGNQHHPNL---- 177
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QY      178 ----EGRAMSALSSF-----GQNARTTTS----- 197
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Db      1971 APHGWSSEPVEDCVTALRGASVVLVEADDPDTSTFGDRVRTLCSGLPDLVGVLMLCL 2030

QY      231 EKVNGCALFAIGEVLITRELIIYLFIRKYGVRSWIPIAISLV-----DTLGWGL- 281
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RESULT 15
US-09-370-700-2
; Sequence 2, Application US/09370700
; Patent No. 6274350
; GENERAL INFORMATION:
; APPLICANT: Baltz, Richard H
; APPLICANT: Broughton, Mary C
; APPLICANT: Crawford, Kathryn P
; APPLICANT: Madduri, Krishnamurthy
; APPLICANT: Treadway, Patti J
; APPLICANT: Turner, Jan R
; APPLICANT: Waldron, Clive
; TITLE OF INVENTION: Biosynthetic Genes For Spinosyn Insecticide
; FILE REFERENCE: 50489 Div1
; CURRENT APPLICATION NUMBER: US/09/370,700
; CURRENT FILING DATE: 1998-08-09
; EARLIER APPLICATION NUMBER: US 09/36987
; EARLIER FILING DATE: 1998-03-09
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2

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GenCore version 5.1.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

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Run on: September 23, 2004, 15:58:19 ; Search time 769 Seconds  
(without alignments)  
9767.646 Million cell updates/sec

Title: US-09-545-072A-1  
Perfect score: 1483  
Sequence: 1 attgcaaccaggagagaa.....attaaaaaaaaaaaaaa 1483

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474682 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*  
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2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
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4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*  
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18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	410.4	27.7	1505	15	US-10-268-441-9
3	248.4	16.7	2320	15	US-10-268-441-5
4	244.6	16.5	1468	15	US-10-268-441-13
5	242.4	16.3	1677	9	US-09-938-842A-3729
6	242.4	16.3	1677	11	US-09-938-842A-3729
7	230.8	15.6	1707	15	US-10-268-441-1
8	207	14.0	1052	13	US-10-424-599-2706
9	198.2	13.4	693	13	US-10-424-599-95953
10	157.2	10.6	1172	13	US-10-425-114-1242
11	152.8	10.3	681	17	US-10-437-963-28995
12	136.6	9.2	702	17	US-10-767-701-9913
13	130.8	8.8	659	17	US-10-767-701-9962
14	121.2	8.2	1525	17	US-10-437-963-28951

15	88.8	6.0	309	13	US-10-424-599-142081	Sequence 142081,
16	79.8	5.4	429	15	US-10-268-441-3	Sequence 3, Appli
17	68.4	4.6	461	15	US-10-268-441-11	Sequence 11, Appl
18	56.4	3.8	253	9	US-09-923-876-5626	Sequence 5626, Ap
19	56.4	3.8	253	11	US-09-923-876-5626	Sequence 5626, Ap
20	46	3.1	608	10	US-09-814-353-5190	Sequence 5190, Ap
21	46	3.1	608	10	US-09-814-353-5190	Sequence 11478, A
22	45.8	3.1	880	15	US-10-198-846-7060	Sequence 7060, Ap
23	44.2	3.0	517	17	US-10-021-323-11054	Sequence 11054, A
24	43.8	3.0	1973	16	US-10-374-780A-1885	Sequence 1885, Ap
25	43.4	2.9	10329	15	US-10-311-455-2096	Sequence 2096, Ap
26	43	2.9	963	15	US-10-023-896-17	Sequence 17, Appl
27	43	2.9	1055	16	US-10-264-049-129	Sequence 129, Appl
28	43	2.9	3673778	15	US-10-312-841-1	Sequence 1, Appli
29	42.4	2.9	578	17	US-10-021-323-15656	Sequence 15656, A
30	42.2	2.8	333	9	US-09-969-373-459	Sequence 459, App
31	42.2	2.8	333	9	US-09-969-373-460	Sequence 460, App
32	42.2	2.8	488	13	US-10-424-599-54177	Sequence 54177, A
33	42.2	2.8	855	17	US-10-332-859-189	Sequence 189, App
34	42	2.8	444	9	US-09-764-869-533	Sequence 533, App
35	42	2.8	444	9	US-09-764-869-533	Sequence 34, Appl
36	42	2.8	444	15	US-10-091-483-34	Sequence 34, Appl
37	42	2.8	444	15	US-10-091-504-533	Sequence 533, App
38	42	2.8	444	16	US-10-227-577-533	Sequence 533, App
39	42	2.8	506	10	US-09-918-995-7423	Sequence 7423, Ap
40	41.8	2.8	480	17	US-10-437-963-28984	Sequence 28984, A
41	41.8	2.8	2448	17	US-10-437-963-20847	Sequence 20847, A
42	41.6	2.8	547	17	US-10-021-323-6195	Sequence 6195, Ap
43	41.6	2.8	6408	15	US-10-311-455-1093	Sequence 1093, Ap
44	41.6	2.8	9770	15	US-10-311-455-5	Sequence 5, Appli
45	41.4	2.8	416	13	US-10-424-599-71220	Sequence 71220, A

## ALIGNMENTS

## RESULT 1

US-10-268-441-7  
; Sequence 7, Application US/10268441  
; Publication No. US2003008475A1  
; GENERAL INFORMATION:  
; APPLICANT: Caboon, Edgar B.  
; APPLICANT: Coughlan, Sean J.  
; APPLICANT: Helentjaris, Timothy George  
; APPLICANT: Jung, Rudolf  
; APPLICANT: Li, Chun Ping  
; APPLICANT: Nichols, Scott  
; APPLICANT: Ripp, Kevin  
; APPLICANT: Zheng, Peizhong  
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
; TITLE OF INVENTION: ORGANELLE  
; TITLE OF INVENTION: FORMATION AND METHODS OF USE  
; FILE REFERENCE: BB1392 US NA  
; CURRENT APPLICATION NUMBER: US/10/268,441  
; CURRENT FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: US/09/672,607  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/157209  
; PRIOR FILING DATE: 1999-09-30  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 7  
; LENGTH: 1505  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (59)  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (60)  
; FEATURE:  
; NAME/KEY: unsure

LOCATION: (90)  
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NAME/KEY: unsure  
LOCATION: (93)  
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Best Local Similarity 62.8%; Pred. No. 1.9e-110;  
Matches 702; Conservative 16; Mismatches 373; Indels 27; Gaps 5;  
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Qy 130 CTATGGAGGCTTATAAGAGATGGGTGAGGAGAACAAAGAGTTTGTGCACCTCCATGGAGT 189  
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Qy 190 CTTTGGCCAAATGGATTGTCATGGCTCTCTGACCGGTTTCTGAAATCAGAGATTGGAC 249  
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Qy 240 CAGAAGCAGTAACGGCTTTTGGGCATATTCAACAGATAAATGAACACATAATTTGAA 299  
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Qy 250 CWGAAGCAGTAACAACTATCTGGGAATCATCAGCTCTCAATGAACATAAATTGATA 309  
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Qy 360 CACTACTCATCGCCATCTCAAGGATTGGAAACTGTTGTGGAAGTGGCAGCTGAACACT 419  
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Qy 364 CATATGCTTATCTGCATTAAAGGATTTGGAAACATTAGTTGAAGTTGTGGCACARCAAT 423  
Qy 420 TCTATGG---AGACAAAAAATGGAACCTACATATTCTCAGTGAAGCTATGAAGCTGCA 476  
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Qy 424 ACTATGGTGATGATAAGAAATGGAATTTCTTTGTTTACTGAAGCAACCAAGTACTGG 483  
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Qy 664 AAGGAAGAGCAVATCTCTTGTGTTAGATTTGGAGAAAAGYRAGGR-----T 714  
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Qy 715 CAGATYCAATGTTGGTTACGAGGTTGRACCAACCAAGCAACTATGAGGCTCAACCTT 774  
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Qy 775 CAAGGTTAGATAGAACCAACACTTCTCACCATTGCTGAAAGGGGCTTTGTGGGGCTC 834  
Qy 834 TGTTCGCAATTCGTGAGGTTCTTTACATAACAGAGACCGCTCATTTACGTTCTTTTCATCA 893  
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Qy 835 TGTTCGCAATTCGTGAGGTTCTACTTATAGTACCACTTATTTATGTTTATTTATTC 894  
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		PRIORITY FILING DATE: 2000-09-28	
		PRIORITY APPLICATION NUMBER: 60/157209	
		PRIORITY FILING DATE: 1999-09-30	
		NUMBER OF SEQ ID NOS: 18	
		SOFTWARE: Microsoft Office 97	
		SEQ ID NO 5	
		LENGTH: 2320	
		TYPE: DNA	
		ORGANISM: Oryza sativa	
		US-10-268-441-5	
		Query Match	
		16.7%; Score 248.4; DB 15; Length 2320;	
		Best Local Similarity 54.1%; Pred. No. 3.8e-62;	
		Matches 619; Conservative 0; Mismatches 486; Indels 39; Gaps 4;	
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Qy	178	ATCCTTTGCCAAACGATTGACATGGCTTCTCTGAGAAAGTTTCTGCTTCAGAGATTGG	237
Db	279	GTCTTGGCCAAATGGGCTAACGTGATACCTCTGAGCGCTTTCGCAACTCTGAGATGCG	338
Qy	238	ACCAAGACGAGTAACGGCTTTTGGGCAATATCACAAAGATAATGAACATAAATGA	297
Db	339	ACCAGAAGCAGTATATGCAATTTCTGGGTATCGTGAGTTCTGTCAATCAGCACATAATGA	398
Qy	298	AAATGCTCCAAACACTCGTGCCCAATGTTGGATCTTCGGGAATGATCCATCCCTTCTTA	357
Db	399	-----AACGCCAACTGATGTGACACATTCGGCTCCAAAGAGCAATCTATCCCATG	449
Qy	358	TCCACTACTCATCCCATCTCTCAAGGATTTGGAACACTTGTGTGAAAGTGGCAGCTGAACA	417
Db	450	GTCCCTTGTGTCAGTACTTAAAGATATTTAGGCACTTGTGAGGTGGCTGCCACGA	509
Qy	418	CTTCTATGGAGACAA---AAATGGAACATACTATTTCTCTGAGCTATGAAGCTGT	474
Db	510	CTTTGTTGGAGATGATGCAAAATGGAGCTTTCTTGTCTTACAGAAGCTGTGAAAGCAGG	569
Qy	475	CATTAGGTTAGCTTGTTCGGAATAGTGGGTATAGATGCTTCTTCAAGGAGGGGAAAC	534
Db	570	TGTCAGGTTAGCTGCTTTCCGGGAGAGTGGCTTACAGATGCTCTTACAGGAGAGAGGT	629
Qy	535	ACCTAATCAGGAGAAAGATCTTAAACCAATCCGAGTCGCAAAATAGAGCTGTGTAATTCGGG	594
Db	630	GGCAATGGAAGAGAGATTAATATTTCTTGATGAAATTTTGAGAGCCAAAGTAATGGAGT	689
Qy	595	TAGAAATCTCGGGCTCATGCTTTGGAAACCAAAATCATCATATATCCATGGAACTTGA	654
Db	690	ACCACTCATTTATCCGATGAATGGCCATTTCCAAAATGGTTCATGGGGTTGCACTTAATGG	749
Qy	655	AGGACGGGAGTGTCTGCTTTAAGTTTCATTTGGTCAGAAATGCAAGAACCAACATCTTC	714
Db	750	TCTTGATGGAAGGCTGGATTTGTATCAAGAGCTCTGGAGGGAAGAGCTGTAGTCTCT	809
Qy	715	TACCCCGGCTTG-----GTCTCGAAGAAATTCACATCAGCA	750
Db	810	TAAACAAGTTTGCCAGAAATGCAAGATGACGTCAGATCCATGTGGATGAAGAGCTCT	869
Qy	751	AGCAGTTATAGAGCTCCAAATGATCAAGAGAGGGGGAAGAGATGTCCGAGCTACTTAC	810
Db	870	GCCTCTCTGATCTCTCTGCGATGTTGTATCAAGAGCTCTGGTGTGAGAAGCCAACTTTGGCAAGTATTTGGTTC	929
Qy	811	TCGAGAAGGCTGTTAATGGAGCGTCTTTGCGAATTCGTGAGGTTCTTTTACATCAACAGAC	870
Db	930	TCTTAAGAAATTCAGGCGGTTATTTTGTAGAGAGAGTTGTCCCATATTCAGAC	989
Qy	871	GCTCATTTACGTTCTTTTTCATCAGAAATATGAGTCCGATCTTGAATCTTCTTGGCTAT	930
Db	990	ACTGTCTACGTACTTTTTCATCAAAAAATTTGGAATCAAAATCATGACCCCATGTTAGT	1049
Qy	931	ATCGCTTCTCTGGACACACTGGGATGGTCTTCTTGTCAAAATTCGAAGTGGTGGGAGA	990

RESULT 3  
US-10-268-441-5  
; Sequence 5, Application US/10268441  
; Publication No. US20030084475A1  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Edgar B.  
; APPLICANT: Coughlan, Sean J.  
; APPLICANT: Helentjaris, Timothy George  
; APPLICANT: Jung, Rudolf  
; APPLICANT: Li, Chun Ping  
; APPLICANT: Nichols, Scott  
; APPLICANT: Ripp, Kevin  
; APPLICANT: Zheng, Peizhong  
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
; TITLE OF INVENTION: ORGANELLE  
; TITLE OF INVENTION: FORMATION AND METHODS OF USE  
; FILE REFERENCE: BB1392 US NA  
; CURRENT APPLICATION NUMBER: US/10/268,441  
; CURRENT FILING DATE: 2002-10-09

Db 1050 GTCATTAGCTGGAGATCAAGGCTTGGCATCCATTACGTCGAACGATCTTCATCA 1109  
QY 991 GAAGAGCAAGCAAGTCCAT---TTCTCAGGACCTGAAAGGATGAGCTGAGGAGACGAAA 1047  
Db 1110 AAGAGGGGAAAGTTTCACTAGCTCTCATCTGCTGAGAGGGACGAGTTGAAAAGCGGAAA 1169  
QY 1048 ACTGATATGGCAATGTACCTCATGAGAGATCCATTCTTCCAAAGTACACAGGSCAGAA 1107  
Db 1170 GATGATGAGGCTTTATGTCATGAGAGATCCATTCTTTACGATACACAGGCGCA 1229  
QY 1108 CTGGAAGCTCTGAAAGAGCTGGAACCTAATTCATGATCGGATTCCTCACAGAGAA 1167  
Db 1230 TCTCAGAAGCTGAGAAAGTGTGGATCCAGTGCCTCTATTGCTTTCTTACAGGCAA 1289  
QY 1168 GATTGTGAGCTTTTGGAGGAGCTCAGTCAAGGTACATTCATATCGGATCGTGAGG 1227  
Db 1290 ACTGTGAGCTAGTGGAGGGGCTCAGACAGGATATACATACATCGGCTCATAGG 1349  
QY 1228 TTA 1231  
Db 1350 ATAA 1353

## RESULT 4

US-10-268-441-13  
; Sequence 13, Application US/10268441  
; Publication No. US20030084475A1  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Edgar B.  
; APPLICANT: Coughlan, Sean J.  
; APPLICANT: Helentjaris, Timothy George  
; APPLICANT: Jung, Rudolf  
; APPLICANT: Li, Chun Ping  
; APPLICANT: Nichols, Scott  
; APPLICANT: Ripp, Kevin  
; APPLICANT: Zheng, Peizhong  
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE  
; TITLE OF INVENTION: ORGANELLE  
; TITLE OF INVENTION: FORMATION AND METHODS OF USE  
; FILE REFERENCE: B1392 US NA  
; CURRENT APPLICATION NUMBER: US/10/268,441  
; CURRENT FILING DATE: 2002-10-09  
; PRIOR APPLICATION NUMBER: US/09/672,607  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/157209  
; PRIOR FILING DATE: 1999-09-30  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 13  
; LENGTH: 1468  
; TYPE: DNA  
; ORGANISM: Triticum aestivum  
US-10-268-441-13

Query Match 16.5%; Score 244.6; DB 15; Length 1468;  
Best Local Similarity 54.1%; Pred. No. 3, Re-61;  
Matches 677; Conservative 0; Mismatches 504; Indels 70; Gaps 6;

QY 112 CTGAAGCTCAATGGAAGCTTATAGCAATCGGTTTGGAGAAATAGAGAGTATGTACAATC 171  
Db 175 CCGAGTGGCCATGAGGCTTACAAGGTCTGGTGGGAGAACCGGACCTCGTCCGCTC 234  
QY 172 CTTTGGATCTTTGCCAAGGATGACATGCTCTCTGAGAGTCTTCTGCTTCAGA 231  
Db 235 CCTGAGTCCCTGCCAACGGGTGACATGACTCTGGGCACTGTAGTCTCTGCTAACCTCCGA 294  
QY 232 GATTGACCAAGACGAGTAACGGCTTTTGGGCATATTCACAAAGATTAATGAACACAT 291  
Db 295 GATTGCCCGAAGCAGTATATGCACTCTGGGCACTGTAGTCTCTGCTCAACAGCATAT 354  
QY 292 AATTGAAATGCTCCAAACCTCGTGCCCATGTTGGATCTTCGGAATGATCCATCCCT 351

## RESULT 5

US-09-938-842A-3729

Db 355 AATTGA-----GACACCAACTGATGGTCACTCACTGGCCTCCAAAGGAACAATCTAT 405  
QY 352 TTCTTATCCACTACTCTCGCCATCTCTCAAGGATTTGGAACCTGTTGGAGTGGCAGC 411  
Db 406 CCCATGGGCTCTCTGTTGATCTATACCTCAAGGATGTCGAAGCAGTGTGTTAGTGGCGC 465  
QY 412 TGAACACTTCTATGGAGACAA---AATGGAACCTACATTTCTCTCACTGAGCTATGAA 468  
Db 466 CCAGCACTTCTTGGAGATGATCGCAATGGGGCTCTCTGCTGTTACAGAAGCAGTGA 525  
QY 469 GGCTGTCAATAGGTTAGCCTTGTTCGGAATAGTGGGTATAGATGCTTCTTCAAGGAGG 528  
Db 526 AGCATGTGTCAAGTTAGCCGCTTTCAGGGAGAAATGGCTACAGGATGCTCTTACAGGAGG 585  
QY 529 GGAACACCTTAATCAGGAGAAAGATTCTAACCAATCCAGTTCGCAA-----574  
Db 586 GGAGGTGGAACCGAAGAGGAGGATGTTCTTGAAGACAAATCAGGAGTCAAGACTAATGG 645  
QY 575 -----AATAGAGCTGGTAAATTCGGGTAGAAATCTCGGCGCTCA 612  
Db 646 AGTCCAGTAACTATCCGGTCAATGGACATTCCTCAAAATGGCCATTTGGATCATGCTGA 705  
QY 613 TGGTCTTGGAAACCAAAATCATCAATCCATGGAACCTTGAAGGAGCGGCGATGCTGC 672  
Db 706 TGGTCCGATGGAACCTGGAATTTATCTAAGACTCTGGAGGGAAGCAGTAGCTGC 765  
QY 673 TTTAAGTTCAATTTGGTTCAGAAATGCAAGAACCAACATCTTCTACCCCGGTTGGTCTCG 732  
Db 766 TTTAAACAGGTTGGTTCAGAAATGCAAGATGTTGTCAGATCCAC-----810  
QY 733 AAGAAATTCACATCAGCAAGCAGTTATAGACCTCCAAATGATCAAGGAGAGCGCAAGAC 792  
Db 811 GTGGATGAGCAGGCTCCAACTTCTCTGTTCTCTCTGTGTGATGGAGATTGAGAAGCAAC 870  
QY 793 GATGTCGAGCTACTACTCAGAAAGGTTTAAATGGAGCGTGTGTTGCGATGTTGAGGT 852  
Db 871 TCTCGCAACCATTTGGTCTTCTAAGGATTTCTGGCGCTTATTCATGTTAGGGAGGC 930  
QY 853 TCTTACATAACGAGACCGCTCAATTTACGTTCTTTTCATCAGAAATATGAGTCCGATC 912  
Db 931 CGTCCACATATTCAGACCACTTGTATACGTACTCTTGATTAGAAAGTTTGGCATCAATC 990  
QY 913 TTGATTCCTTGGGCTATATCGCTTTCTGTGGACACACTGGGATGGGTCTTCTGCAAA 972  
Db 991 TTGAGCCCGTGGTGGTCTCTCACTAGCTGTGGAGCTCGCAAGGCTTGGCATTCATCGCA 1050  
QY 973 TTCGAAAGTGGTGGGAGAGAGAGCAAGCAAGTCCAT---TTCTCAGGACCTGAAAGGA 1029  
Db 1051 TGCAACAGATCTGAATCATAGAGCTGGGAAAGTTTCACTGCTCTGCTGAGAGGA 1110  
QY 1030 TGAGCTGAGGAGACGAAACTGATATGGGCAATTTGACCTCATGAGAGATCCATTTCTCAC 1089  
Db 1111 TGAGTTGAAAAGCGGAAATGATGTGGCACTTTAIGTCATGAGAGATCCATTTCTTGC 1170  
QY 1090 CAAGTACACAGCAGCAGAGCTGAAAGCTCTCAAAAGAGCTGGAACCTAATTTCCATGAT 1149  
Db 1171 CAGCTACACAGCGCTCATCTTGAAGGCTGAGAAAGCATTAGTCCGCTGCGCTTAT 1230  
QY 1150 CGGATTCCTCACAGAGAAGATTGTGAGCTTTTGGAGGGAGCTCAGTCAAGGTACACTTA 1209  
Db 1231 CGGTTTCAACAGGTAAGCTCGTGAACATTTTGGAGGGGCTCAGTCCGGTATACATA 1290  
QY 1210 CATATCGGATCGTGAAGTTAAAGCGTTTACTTATATGTTTATATGCAACGGAAGATATT 1269  
Db 1291 TACATCAGGCTCGT-----AGAGGAGATTGGGATAGATTACCTGCTTCTGCTGGAGAGC 1346  
QY 1270 GCATTTGTTGGAATGCTTTTATAGATCAACAAAGGCTCTACAGATTTCTT 1320  
Db 1347 TTCTTGTGATCTGCCATCTACTGAGCTTTTGTGTTCTCTGATTTTGTCTT 1397

Sequence 3729, Application US/09938842A  
Patent No. US20020160378A1  
GENERAL INFORMATION:  
APPLICANT: Harper, Jeff  
APPLICANT: Kreps, Joel  
APPLICANT: Wang, Xun  
APPLICANT: Zhu, Tong  
TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING  
TITLE OF INVENTION: SAME, AND METHODS OF USE  
FILE REFERENCE: SCRIPI300-3  
CURRENT APPLICATION NUMBER: US/09/938,842A  
CURRENT FILING DATE: 2001-08-24  
PRIOR APPLICATION NUMBER: US 60/227,866  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US 60/264,647  
PRIOR FILING DATE: 2001-01-16  
PRIOR APPLICATION NUMBER: US 60/300,111  
PRIOR FILING DATE: 2001-06-22  
NUMBER OF SEQ ID NOS: 5379  
SEQ ID NO 3729  
LENGTH: 1677  
TYPE: DNA  
ORGANISM: Arabidopsis thaliana  
US-09-938-842A-3729

	Query Match	16.3%	Score 242.4	DB 9	Length 1677
	Best Local Similarity	99.6%	Pred. No. 1.9e-60		
	Matches 243	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	1226	GGTTAAACGGTTTTACTTTATGCGTTTATATGCAACGGAAGAATATTGCCATTGTTGGAAATGC	1285		
Db	1	GGTTAACGGTTTTACTTTATGCGTTTATATGCAACGGAAGAATATTGCCATTGTTGGAAATGC	60		
QY	1286	TTTTTTAGATCATCAAAAGGTCCTACAGATTTCTTTAGGGAATGCTTTACAGCTTTTGTGTA	1345		
Db	61	TTTTTTAGATCATCAAAAGGTCCTACAGATTTCTTTAGGGAATGCTTTACAGCTTTTGTGTA	120		
QY	1346	GAAATTCTGTTTATTGTCACACAGGTAGAGAACATAACCATACACAGATGTATCTCAAGAGA	1405		
Db	121	GAAATTCTGTTTATTGTCACACAGGTAGAGAACATAACCATACACAGATGTATCTCAAGAGA	180		
QY	1406	TAACTTCTCTATGCTCTTAACGAATGGACCGCATACGAATATAACAAGCATCATTTAAAGAT	1465		
Db	181	TAACTTCTCTATGCTCTTAACGAATGGACCGCATACGAATATAACAAGCATCATTTAAAGAT	240		
QY	1466	TAAA	1469		
Db	241	TAAA	244		

RESULT 6  
US-09-938-842A-3729  
; Sequence 3729, Application US/09938842A  
; Publication No. US20040009476A9  
; GENERAL INFORMATION:  
; APPLICANT: Harper, Jeff  
; APPLICANT: Kieps, Joel  
; APPLICANT: Wang, Xun  
; APPLICANT: Zhu, Tong  
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING  
; TITLE OF INVENTION: SAME, AND METHODS OF USE  
; FILE REFERENCE: SCRIPT300-3  
; CURRENT APPLICATION NUMBER: US/09/938,842A  
; CURRENT FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: US 60/227,866  
; PRIOR FILING DATE: 2000-08-24  
; PRIOR APPLICATION NUMBER: US 60/264,647  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/300,111  
; PRIOR FILING DATE: 2001-06-22  
; NUMBER OF SEQ ID NOS: 5379  
; SEQ ID NO 3729  
; LENGTH: 1677

```

; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-3729

Query Match 16.3%; Score 242.4; DB 11; Length 1677;
Best Local Similarity 99.6%; Pred. No. 1.9e-60;
Matches 243; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1226 GGTAAAGCGTTTACTATGTTTATATGCAACGGAAGAAATATGCAATGTTTGGATGC 1285
Db 1 GGTAAAGCGTTTACTATGTTTATATGCAACGGAAGAAATATGCAATGTTTGGATGC 60

Qy 1286 TTTTAAAGATCATCAAAAGGCTCCTACAGATTTCTTAGGGAATGGTTTCAGGCTTTTGTTA 1345
Db 61 TTTTCAGATCATCAAAAGGCTCCTACAGATTTCTTAGGGAATGGTTTCAGGCTTTTGTTA 120

Qy 1346 GAAATTGTGTTTATGCAACAGTAGAGAAATCAATACATAGACAGATGATCTGAAGAGA 1405
Db 121 GAAATTGTGTTTATGCAACAGTAGAGAAATCAATACATAGACAGATGATCTGAAGAGA 180

Qy 1406 TAGCTTCTCTATGTTCTAAAGAAATGACCGATACCAATAAAAACAGCATCATTTAAAGAT 1465
Db 181 TAGCTTCTCTATGTTCTAAAGAAATGACCGATACCAATAAAAACAGCATCATTTAAAGAT 240

Qy 1466 TAAA 1469
Db 241 TAAA 244

RESULT 7
US-10-268-441-1
; Sequence 1, Application US/10268441
; Publication No. US20030084475A1
; GENERAL INFORMATION:
; APPLICANT: Catoon, Edgar B.
; APPLICANT: Coughlan, Sean J.
; APPLICANT: Helentjaris, Timothy George
; APPLICANT: Jung, Rudolf
; APPLICANT: Li, Chun Ping
; APPLICANT: Nichols, Scott
; APPLICANT: Ripp, Kevin
; APPLICANT: Zheng, Peizhong
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS AND PROTEINS AFFECTING STORAGE
; TITLE OF INVENTION: ORGANELLE
; TITLE OF INVENTION: FORMATION AND METHODS OF USE
; FILE REFERENCE: B31392 US NA
; CURRENT APPLICATION NUMBER: US/10/268.441
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/672,607
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/157209
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; LENGTH: 1707
; TYPE: DNA
; ORGANISM: Zea mays
; US-10-268-441-1

```

Query Watch	15.6%	Score 230.8;	DB 15;	Length 1707;
Best Local Similarity	53.3%;	Pred. No. 5.2e-57;		
Matches	605;	Conservative	0;	Mismatches 492; Indels 39; Gaps 4;
118	CTCAATGGAGCTTATAGCAATCGGTTTGCAGAAATAGAGAGTATGTACAACTCCTTGG	177		
119		178		
120		179		
220	CGCCATGGAGGGTACAAGCTCTGGGTGCGAGGAACGGGACCTGCTCGCTCCTCGA	279		
221		280		
178	ATCCCTTTGCCACGGAATGAATGCGCTGCTTCCCTGAGAAGTTTCTGCTTCAGAGATTGG	237		
179		238		
280	GTCCCTCGCCACGGGCTCATGTGATACTCCCCGAGCGCTTCGCCAACTCGAGATGCG	339		
281		340		
238	ACCAGAAGCAGTAACGGGCTTTTTCGGCGAATATTCACAACGATAATGAAACATATAATTGA	297		
239		298		

Db 340 ACCAAGCAGTATATGCACTACTGGTATTGTGAGTTCTGTCATCAGCACATAATTGA 399  
Qy 298 AAAAGCTCCACACCTCTGGCCATGTTGGATCTTCGGGAATGATCCATCCCTTTCTTA 357  
Db 400 -----TGCGCCACTGAGATCACTATTGCTTCCCAAGGAACTATATCCCATG 450  
Qy 358 TCCACTACTATCGCCATCTCAAGGATTTGGAACTGTTGGAAGTGGCAGCTGACAA 417  
Db 451 GGGTCTTGTCTCTGCTACTAAGGATGTCGAGCGGTGTTGAGGTGTCGCCAGCA 510  
Qy 418 CTTCTATGGAGACAA---AAAATGGAACACTATTCTCACTGAAGCTATGAAGGTGT 474  
Db 511 CTTTGTGGCGATGATCGCAAGTGGAGCTTCTTGTCTTACAGAAGCAGTGAAGCAGG 570  
Qy 475 CATTAGGTTAGCCTTGTTCGGATATAGGATGTTGGAATGATGCTTCTTCAAGAGGGGAAAC 534  
Db 571 TGTCAAGTTAGCTGCTTTTCGGGAGTGGATGACATGCAAGAAATGGTCAACAAACTATGCGCAAGG 630  
Qy 535 ACCTAATGAGGAGAAAGATTCTAACCAATCGAGTCCGCAAAATAGAGCTGTAATTCGGG 594  
Db 631 GGTAATGCAAGAGAGGTGACCGTCTTGTGAATAATATGAGTAAATGGTAATGGAGT 690  
Qy 595 TAGAAATCTCGGCTCATGCTTGTGGAACCAAAATCATATATCCATGGAACCTTGA 654  
Db 691 ACCAGCCATCTATCCGATGATGACATGCAAGAAATGGTCAACAAACTATGCGCAAGG 750  
Qy 655 AGGACGGCGATGCTGCTTAAAGTCTATTGCTGAGATGCAAGAACTATGCTTTC 714  
Db 751 TCTGGATGTAATAATGGAATTTGATTAAGATCTTTGAGAAAGAGCAGTAGCTGCTTT 810  
Qy 715 TACCCCGGTG-----GTCTCGAAGAAATCAACATCAGCA 750  
Db 811 GAACAAATTTGTCGAGAACGCAAGATGATCTGTATCTTATGTCGAGTAAATGGTAATGGAGT 870  
Qy 751 AGCAGTTATAGAGCTCAATGATCAAGGAGCGGCAAGCAAGATGTCGAGCTACTTAC 810  
Db 871 ACCTACTCCTGAGCAACTGTGATGTTGCGAGAGCAACATTTGACAAGTATTTGGTC 930  
Qy 811 TGAGAAGGTTTAATCGAGCGTGTGTCGATGTTGAGTTCGAGTCTTTACATAAGAGACC 870  
Db 931 TACTAAAGCGGTACTCGGCGCTTGTGTTGTTTGGGAGGTTGTTCCACATATTCAGGCC 990  
Qy 871 GCTCATTACGCTCTTTTCATCAGAAATATGAGTCCGATCTTGGATTCCTTGGGCTAT 930  
Db 991 ACTTGATATGATCTTCTGATCAGAAATTTGGAATCAATCATGAGCCCGTGGCTAGT 1050  
Qy 931 ATCGCTTCTGTGACACACTGGGATGGGTCTTTTGCAAAATCGAAGTGGTGGGAGA 990  
Db 1051 GTCGCTAGCTGTGAACTCAAGTCTAGGCATCCATTCCTCATGCAACCGATCTGAATCA 1110  
Qy 991 GAAGAGCAAGCAAGTCCAT---TTCTCAGGACCTGAAAGGATGAGTGAAGAGCAAA 1047  
Db 1111 CAGATTAGGAAGTGCATCAGCTCAGTTCGCGAAGGAGCAGTGTGAAAGGCGAAA 1170  
Qy 1048 ACTGATATGGGCTTTTACCTCATGAGATCCATCTTCCAAAGTACACAAGGAGAA 1107  
Db 1171 GATGATGGGCTCTTATGTGATGAGATCTTCTTTCGAGTACAGAGAGGTCA 1230  
Qy 1108 GCTGGAAGCTCTCAAAAGAGCTGGAATTAATTCATGATCGGATTCCTCAAGAGAA 1167  
Db 1231 CCTCCTGAAGCTGAACAGTTTCTGAATCCGGTCCCATGATTTGGCTTCTTACAGGAA 1290  
Qy 1168 GATTGTGGAGCTTTTGGAGGAGCTCAGTCAAGGTACACTTACATATCGGATCGT 1223  
Db 1291 ACTTGTAGAGCTACTGAGGGGATTCAGAGATACAGTACACATCAGGTTTCAT 1346

RESULT 8  
US-10-424-599-2706/c  
; Sequence 2706, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kowalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 2706  
; LENGTH: 1052  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(1052)  
; OTHER INFORMATION: unsure at all n locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_102449C.1  
US-10-424-599-2706

Query Match 14.0%; Score 207; DB 13; Length 1052;  
Best Local Similarity 62.1%; Pred. No. 4.3e-50;  
Matches 346; Conservative 0; Mismatches 205; Indels 6; Gaps 1;

Qy 675 TAAGTTCATTGGTFCAGAATGCAAGAACAAACAATCTTCTACCCCGGTTGGTCTCGAA 734  
Db 1052 TATCTGCTTTTGTAGATTGGAGAAAAGCAAGGGTTCAGATCCAGTGTGGTTCGCA 993  
Qy 735 GAATTCAACATCAGCAGCAGTATAGAGCTCAATGATCAAGGAGGCGAAGACGA 794  
Db 992 GGGTTGAACCAACCAAGCAACTATGAGCTCAACTCAAGGGCGGAGGACCAACAC 933  
Qy 795 TGCCGAGCTACTTACTGAGAAGGGTGTAAATGAGAGCTTGTTCGATTTGGATGGAGCTC 854  
Db 932 TTCTCACCATTATGTCGAAAGGGTCTTTGCGGGCTCTGTTTTTATGGAGAGTTC 873  
Qy 855 TTTACATACAGAGACCGCTCATTTACGTTCTTTTCATCAGAAAATATGAGTCCGATCTT 914  
Db 872 TACTTATTAGTAGACCATTATTATGTTTATTCGAAAATATGGTATTCGGTTCAT 813  
Qy 915 GGATTCCTTGGGCTATATCGCTTTCTGTGGACACATCGGGATGGTCTCTTGTGCA--- 970  
Db 812 GGAACCTTGGTTCCTTCTGCTGGCTATTGATTCAGTAAACAGATATTCTTCTACTCA 753  
Qy 971 --AATTGCAAGTGGTGGGAGAGAGCAAGCAAGTCCATTTCTCAGGACCTGAAAAGG 1028  
Db 752 TTACATCGTCAGTGGCTGGTGGGAAGGACCGATGTTTCTCTCTGCTCGCCTAGAAAAGG 693  
Qy 1029 ATGAGCTGAGGAGACGAAACCTGATATGGCATTTGACCTCATGAGAGATCCATTCTTCA 1088  
Db 692 ATGAGGTTAAACCGCGAAAGCTGCTATTGTTCTTTACCTAATGAGAGATCCATTTCGA 633  
Qy 1089 CCAAGTACACAGGCGAGAGCTGGAAGCTCTCAAAAGAGCTGGAACCTAATTTCAATTGA 1148  
Db 632 GCAAGTATCTAGGCAAGAGCTTTGAAAGCAGCGAAGAGTTTGGAGCCTATTCTCTGCA 573  
Qy 1149 TCGGATTCCTCAGAGAAAGATTGTGGAGCTTTTGGAGGAGCTCAGTCACGCTACACTT 1208  
Db 572 TAGGATTTCTCAGACGAAACTTTGTGAATTTATTTGAGGCTCAACACGATACACTT 513  
Qy 1209 ACATATCGGGATCGTGA 1225  
Db 512 ACATGTGAGGATCGTGA 496

RESULT 9  
US-10-424-599-95953  
; Sequence 95953, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J

APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT FILING DATE: 2003-04-28  
CURRENT APPLICATION NUMBER: US/10/424,599  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 95953  
LENGTH: 693  
TYPE: DNA  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_57657C.1  
US-10-424-599-95953

Query Match 13.4%; Score 198.2; DB 13; Length 693;  
Best Local Similarity 63.9%; Pred. No. 1.3e-47;  
Matches 374; Conservative 0; Mismatches 188; Indels 23; Gaps 4;  
QY 120 CAATGGAGCTTATAAGCAATGGGTTGGAGAAATAGAGATGTATGATCAATCCCTTTGGAT 179  
DB 109 CTATGGAGGCTTATAAGAGATGGGTGAGGAGCAACAAAGAGTTGTGCACTCCATGGAGT 168  
QY 180 CCTTTGCCAAGGATGATGGCTGCTCTCTGAGAAGTTTCTGCTTCAGAGATTGGAC 239  
DB 169 CTTTGGCCAAATGGATGATGGCTTCTCTCTGAAACGGTTTCTGAAATCAGAGATTGGAC 228  
QY 240 CAGAGCAGTAAACGGCTTTTGGGCATATTACAAACGATATAATGAACACATATTTGAAA 299  
DB 229 CTGAAGCAATGAACCAATCTGGGAATCAACAGCTCTCAATGAACATATATTGATA 288  
QY 300 ATGCTCCAAACCTCTGTGGCCATGTTGGATCTTCGGGAATGATCCATCCCTTTCTTATC 359  
DB 289 CAGCTCTCTAAGC-----AAAATATTACAGGCTCTGTCAAGCCTTATTTCGTTTCTTATC 342  
QY 360 CACTACTCATGCCATCTCTAAGGATTTGGAACCTGTTGTGAAGTGCAGCTGAACACT 419  
DB 343 CATTAATGCTTATCTGCATTAAAGGATTTGGAACATATTAGTTGAAGTTGTGGCACAGCAAT 402  
QY 420 TCTATGG--AGACAAAAATGGAACACTACATTATTCTCACTGAAGCTATGAAG----- 469  
DB 403 ACTATGGTGATGAAGAAATGGAATTTCTTGCTGTCTACTGAAGCAACCAAGTAAGCAG 462  
QY 470 ----GCTGCTCATAGTTAGCTTGTTCGGGAATAGTGGGTATAGATGCTTTCTTCAAGG 525  
DB 463 AATAATGCTACGTCGGTTATCTTTGTTTCGGAAGAGTGGATATAGATGCTCTCAAGG 522  
QY 526 AGGGAAACACTAATGAGGAGAAAGATTTCAACCAATCCGAGTCGCA--AATAGAGC 582  
DB 523 AGGGAAACCTCCTAATGATGAGGACATTCAGATGTTTACTTTCGCAACATCATATGG 582  
QY 583 TGGTAATTCGGGTAGAAATCTCGGCGCTCATGGTCTTGGAAACCAAAATCATCAATCC 642  
DB 583 CTTAAGCCGATGTGCATCATAGGCTTGTTATATGAAACAAATCTTTGGTGCAACCC 642  
QY 643 ATGGAACCTTGAAGACGGCGGATGCTGCTTTAGTTTCATTGG 687  
DB 643 AATGAATCAGGAAGGAAGACGATTATCTGCTTTTGGTTAGATTGG 687

## RESULT 10

US-10-425-114-1242  
Sequence 1242, Application US/10425114  
Publication No. US2004003488A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 1242  
LENGTH: 1172  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: 700105418\_FLI  
US-10-425-114-1242

Query Match 10.6%; Score 157.2; DB 13; Length 1172;  
Best Local Similarity 52.0%; Pred. No. 2.7e-35;  
Matches 474; Conservative 0; Mismatches 403; Indels 35; Gaps 4;  
QY 342 ATCCATCCCTTTCTTATCCACTACTCATCGCATCTCAAGGATTTGAAAATCTGTGTGG 401  
DB 1 AACAACTATCCCATGGGCTTGTGCTCTGTACTAAAGGATGTGAGCGGTGTG 60  
QY 402 AAGTGGCAGCTGAACACTTCTATGGAGACAA---AAATGGAACATACATATTCTCATCG 458  
DB 61 AGGTTGCTGCCCAGCACTTTTGGCGATGATCGAAAGTGAGGCTTTCTTGCCTGTACAG 120  
QY 459 AAGCTATCAAGCTGTCTATTAGGTTAGCTTTGTTCCGGAATAGTGGGTATAGATGCTTC 518  
DB 121 AAGCAGTGAAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 175  
QY 519 TTCAAGAGGGGAAACACCTAATGAGGAGAAAGATTCTAACCAATCCGAGTCGCAAAATA 578  
DB 176 TACAAGAGGGGAGGTGTAATGAAGAAGAGGTGACCGTCTTTGAAATATGTTATGGAG 235  
QY 579 GAGCTGTAATTCGGGTAGAAATCTCGGCGCTCATGCTTTGGAAACCAAAATCATCAT 638  
DB 236 TAAATGTTAATGAGTAGTACCAAGCCATCTATCCGATGGATGAGCATGCAGAAATGGTCA 295  
QY 639 ATCCATGAACCTTGAAGGCGGCGATGCTGCTTTAAAGTTCAATTTGTCAGAAATGCAA 698  
DB 296 AAACATATGCCAAGGCTGTGATGTAATAAATGATTTGATCTTAAGAGTCTTGAGAAA 355  
QY 699 GAACAAACAACTTTCTACCCCGGTGGT-----CTCGAA 734  
DB 356 GAGCAGTAGTCTTTGAACAAATTTGTTGAGAACGCAAGATGATGTCTGATCTATGT 415  
QY 735 GAATTCACATCAGCAAGCAGTTATAGAGCTCCAAATCATCAAGAGAGCGCAAGACGA 794  
DB 416 GGAATTCGAGGCTCCAACTCTCTGAGCCAACTGTGATGGTTCCGAGAAAGCCAACT 475  
QY 795 TGTCCGAGCTACTTACTGAGAAAGGTTAATGAGGCTTTGTTTCGAGTTGGTGAAGTTTC 854  
DB 476 TGGCAAGTATTTGGTCTCTAAAGCGGTACTTGGCGCTTGTGTTTGTAGGGAGTTG 535  
QY 855 TTACATAACGAGACCGCTCATTTACGTTCTTTTTCATCAGAAATATGAGTCCGATCTT 914  
DB 536 TTCACATATCAGGCACTTGTATATGTACTTCTGATCAGAAAGTTTGGAAATAAATCGT 595  
QY 915 GGAATTCCTTGGCTATATGCTTTCTGTGGACACACTGGGATGGTCTTCTTTCGAAAT 974  
DB 596 GGACCCCTGGCTAGTGTGCTAGCTGTGGAACCTCACAAGTCTAGGCGTCCATTCCTCATG 655  
QY 975 CGAAGTGTGGGAGAGAGCAAGCAAGTCCAT---TTCTCAGAACCTGAAAGGATG 1031  
DB 656 CAACCGATATGAATCACAGATTTAGGAAAAGTGCATCAGTCTGCTGTGAGAGGATG 715  
QY 1032 AGCTGAGGAGACGAAAACTGATATGGGATTTGATCTCATGAGATCCATTTCTTCAACA 1091  
DB 716 AGTTGAAAAAGGCGAAGATGATGTGGGCTCTTTATGTGATGAGATCCTTTCTTTTGCCA 775  
QY 1092 AGTACACAGGAGAGCTGGAAGCTCTCAAAAAGAGCTGGAACCTAAATTCATTTGATCG 1151  
DB 776 GTTACAGCAAGCGTCACCTCTCCCTGAGGCTGAACAGGTTCTGAATCCGTTGCCATTG 835

QY	1152	GATTCCTC	CACAGAGA	GATTGT	GAGCTTTT	GAGGGAGCT	CAGTCACGGT	TACACTTACA	1211
Db	836	GCATCTCT	TACAGGAA	CTTTGT	TAGACTCT	GTGAGGGCA	TTACACGAGAT	TACACGTACA	895
QY	1212	TATCGGAT	CGGT	1223					
Db	896	CATCAGGT	TCAT	907					

```

RESULT 11
US-10-437-963-28995
; Sequence 28995, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 28995
; LENGTH: 681
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MFT4530_3353C.1
US-10-437-963-28995

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Query Match	10.3%;	Score 152.8;	DB 17;	Length 681;
Best Local Similarity	61.9%;	Pred. No. 3.8e-34;		
Matches 260;	Conservative 0;	Mismatches 157;	Indels 3;	Gaps 1;
QY	815	AAGGGTGTTAAATCGAGCGGTTGTTTGCATTTGGGTCAGGTTCTTTACATAACGAGACCGCTC	874	
Db	36	AAGAAATTCAGGCGGTATATTTTGTATGGAGAAGTTGTCCACATATTTACAGACCACTG	95	
QY	875	ATTTAGCTTCTTTTCATCAGAAAATATGGAGTCCGATCTTTGGATCTCTTGGGTATATCG	934	
Db	96	CTATAGCTATTTTGTGATCAAAAAATTTGGAATCAAAATCATGGACCCCATGTTAGTGCA	155	
QY	935	CTTTCTGTGGACACACTGGGGATGGGTCTCTTTGCRAATTCGAAGTGGTGGGAGAGAAG	994	
Db	156	TTAGCTGTGGAGATCAAGTCTTGGCATCCATTACGTCAACTGATCTTCATCAAGA	215	
QY	995	AGCAGCAAGTCAT--TTCTCAGGACCTGAAAAGATGAGCTGAGGACGAAAACCTG	1051	
Db	216	GGGGGAAAAGTTTCATCAGCTCTCATCTGTGAGAGGACGAGTTGAAAAGGCGAAAGATG	275	
QY	1052	ATATGGGCATTGTACCTCATGAGAGATCCATTCTTCACCAAGTACACAAGGCGAGAAGCTG	1111	
Db	276	ATGTGGGCCCTTTATGTGATGAGAGATCCATTCTTTACCAGATACACCAGGCCCATCTC	335	
QY	1112	GAAGCTCTCAAAGAAGCTGGAACTAAATTCCTATTGATCGGATCTCTTCACAGAGAAGATT	1171	
Db	336	CAGAAGGCTGAGAAAAGTTGTGGATCCAGTGCCTCTTATTGGTTTCTTCACAGCAACCTC	395	
QY	1172	GTGGAGCTTTTGAGGGAGCTCAGTCACGGTACACTTACATATCGGATCGTGAGGTTAA	1231	
Db	396	GTAGAGCTAGTGGAGGGGCTTCAGACCGGATATACATACACATCTCGGGCTCATAGGATAA	455	

RESULT 12  
US-10-767-701-9913  
; Sequence 9913, Application US/10767701

```

; Publication No. US20040172684A1
;
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
;
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 9913
; LENGTH: 702
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS40655_1
; US-10-767-701-9913

```

Query Match	9.2%	Score 136.6	DB 17	Length 702
Best Local Similarity	61.1%	Pred. No. 2.5e-29		
Matches 239	Conservative 0	Mismatches 149	Indels 3	Gaps 1
Qy	836	TTTTCGATTCGTGAGGTTCTTTTACATAACAGACCGCTCATTTACGTTCTTTTCATCAGA	895	
Db	1	TTTGTTTTAGGGAGGTTGTTTCATATTCAGGCCACTTGTATATGACTTCTTGATCAGA	60	
Qy	896	AAATATGGAGTCCGATCTCGAATCCCTTGGGCTATATCGCTTTCTGTGGACACACTGGGG	955	
Db	61	AAGTTTGGAAATCAAAATCATGGACCCCATGGTTAGTGTCACTAGCTGTGGAACTCACAGT	120	
Qy	956	ATGGGTCCTCTTGCAAATTCGAAGTGTGGGAGAGAGACGACGAAAGTCCATTCTTCA	1015	
Db	121	CTAGGCATCATTTCCCATGCGACCGACTCGAATCACAGATTAGGGAAGTGCATCATCTA	180	
Qy	1016	GG---ACCTGAAAGGATGAGCTGAGGAGACGAAACTGATATGGGCATTGTACTCTCATG	1072	
Db	181	AGTTCTGCTGAGAGGGATGATTTGAAAGCGGAAGATGATGTGGGCCCTTTATTTCATG	240	
Qy	1073	AGAGATCCATTCTTCCAAAGTACACAGCGAAGCTGGAAGCTCTCAAAAGAAGCTG	1132	
Db	241	AGAGACCCCTTCTTTGCCAGTTACCCAAACGTCATCTCCAAAAGGCTGAACAGGTCCTG	300	
Qy	1133	GAACTAATTCATTTGATCGGATTCCTCACAGAGAAGATTGTGGAGCTTTTGGAGGAGCT	1192	
Db	301	AATCCGGTGCCATTGATTGCTTCCCTTACAGGGAACCTTATAGAGCTGCTGGAGGGGGTT	360	
Qy	1193	CAGTCACGGTACACTTACATATCGGATCGT	1223	
Db	361	CAGACAAGATATACATACACATCAGGTTTCAT	391	

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RESULT 13
US-10-767-701-9962
; Sequence 9962, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 9962
; LENGTH: 659
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS43806_1
US-10-767-701-9962

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Query Match  
Best Local Similarity 59.5%;  
Matches 263; Conservative 0; Mismatches 167; Indels 12; Gaps 2;

118 CTCATGGAAGCTTATAGCAATGGTTTGGAGAAATAGAGATGATGACAAATCCTTTGG 177  
124 CGCCATGGAGCGTACAAAGCTCTGGGTGCGAGGAAACAGGACCTCGTCCGCCCTCGA 283  
178 ATCCCTTTCCCAAGGATGACATGGCTCTCTCTGAGAAGTTTCTGCTTCAGAGATTGG 237  
284 GTCCCTCCGCAACGGTTTGACATGATACTCCCGAGCGCTTTCGCAACTCCGAGATCGC 343  
238 ACCAGAACGATTAACGGCTTTTTCGGCATATTCACACGATTAATGACACATATTTGA 297  
344 GCCGGAAGCAGTATATGCACTACTGGGTGTTGTGAGTTCTGTCAATCAGCAATAATTTGA 403  
298 AAATGCTCCACACACCTCGTGGCCATGTTGGATCTTCCGGGAATGATCCATCCCTTCTTA 357  
404 -----TGGCCCACTGAGAACTCACTATTGCTCCCAAGGACATCTATCCCATG 454  
358 TCCACTACTCATCGGCATCTCTCAAGGATTTGGAATCTGTTGGAAGTGGCAGCTGAACA 417  
455 GGGTCTGTGTTCTGTACTAAGGATGTGGAGCAGTTGTTGAGGTTGCTGCCCGACGA 514  
418 CTTCTATGAGACAA---AAATGGAACTACATATTTCTCACTGAGCTATGAAGGCTGT 474  
515 CTTTGTGGCATGATCGCAAGTGGAGCTTTCTGCTGTACGGAAGCAGTGAAGACAG 574  
475 CATTAGGTAGCTTGTTCGGAATAGTGGGTATAGATGCTTTCAAGGAGGGGGAAC 534  
575 TGTGAGTTAGCTGCTTTTCGGGAGTGGATGATCAAGATGCTCTTACAGGAGGGGAGGT 634  
535 ACCTAATGAGGAGAAAGATTCT 556  
635 GGCAAATGAAGAGGTTGACT 656

RESULT 14  
US-10-437-963-28951  
; Sequence 28951, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 28951  
; LENGTH: 1525  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_3349C.1  
US-10-437-963-28951

Query Match  
Best Local Similarity 50.9%;  
Matches 339; Conservative 0; Mismatches 343; Indels 36; Gaps 3;

182 TTTGCCAACGGATTGACATGGCTCTTCCTGAGAGAGTTTCTGCTTCAGAGATTGGACCA 241  
91 TTTTATCAGGGCTAAGCTGATACTTCTCTGAGCGCTTTCGCAACTGTGATCGCACCA 150

242 GAACAGTAACGGCTTTTGGGCATATTCACAAACGATAAATGAACACATATTAATGAAAT 301  
151 GAACAGTATATGATTTCTGGGTATCGTGAGTTCTGTCATCAGCACATAATTTGA---- 206  
302 GCTCCAAACACTCGTGGCCATGTTGGATCTTTCCGGGAATGATCCATCCCTTTCTATCCA 361  
207 ----AAGCCAACTGATGGTTCAGACATTTGGCTTCCAAAGAGCAATCTATCCCATGGTCC 261  
362 CTACTCATCGCATCTCTCAGGATTTGGAACTGTTGTGGAAGTGGGAGCTGAAACACATTC 421  
262 CTTTGTGCTCAGTACTTAAGGATATTGAGGCAAGTTGTTGAGGTGGCTGCCACGACATTT 321  
422 TATGAGAGCAA---AAAATGGAACCTACATTAATTTCTCACTGAAGCTATGAAGCTGTCAAT 478  
322 GTTGGAGATGATCGCAATGGAGCTTTCTGCTGTTACAGAAGCTGTGAAAGCAGGTGTC 381  
479 AGTTAGCTTTGTTCCGGAATAGTGGGTATGAAGTGTCTTCTCAAGGAGGGGAACACCT 538  
382 AGTTAGCTGCTTTTCGGGGAGAGTGGCTTACAAGATGCTCTTACAAGGAGGAGAGTGGCA 441  
539 AATGAGGAGAAAGATTCTAACCAATCCGAGTCCGAAATAGAGCTGTGTAATTCGGGTAGA 598  
442 AATGAAGAGGAGATTAATTAATTTCTGATGAAATTTTGGAGCCAAAGTAATGAGATACCA 501  
599 AATCTCGGGCTCATGTTCTTGGAAACCAAAATCATATAATCCATGAACTTCCATGAACTTGGAAAGA 658  
502 GTCATTTATCCGATGAATGGCAATTTCCAAATGCTCATGGGTGTCATCTAATGGTCTT 561  
659 CGGGGATGCTGCTTTAAGTTTCAATTTGTCAGATGCAAGAACAAACACATCTTCTTACC 718  
562 GATGAAAGGCTGGATTTGTATCAAGAGTCTGAGGAGGAGAGCTGTAGTCTCTTTAAC 621  
719 CCGGTTG-----GTCTCGAAGAAATTCACATCATCAGCAAGCA 754  
622 AGTTTGGCCGAATGCAAGATGACGTCCAGTCCATGATGATGAAGAGCTCTGCT 681  
755 GTTATAGAGCTTCCAAATGATCAAGGAGGCGGAGAAACGATCCGAGCTACTTACTGAG 814  
682 CCTCTGATCTCTCTGCGATGGTGTGAGAAGCCAACTTTGGCAAGTATTTGGTCTGCT 741  
815 AAGGTGTTAATGGAGCTGTTTTCGGATTGGTGAGTTCTTTACATAACGAGACCGCTC 874  
742 AAAGGAATTTACGGGCGGTATTTTGTAGGAGAGTTGTCCACATATTCAGACCACITG 801  
875 ATTTAGCTTCTTTTCATCAGAAATATGGAGTCCGATCTTGGATTCCTTTGGG 926  
802 CTATAGCTACTTTTGTATCAAAAAATTTGGAATCAATCATGACCCCATGGG 853

RESULT 15  
US-10-424-599-142081  
; Sequence 142081, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 142081  
; LENGTH: 309  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_99312C.1  
US-10-424-599-142081

Query Match  
6.0%; Score 88.8; DB 13; Length 309;

Best Local Similarity 75.0%; Pred. No. 2.2e-15;  
Matches 111; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY	120	CAATGGAAGCTTATAGCAATGGTTTGGAGAAATAGAGAGTATGTACAATCCTTTGGAT	179
Db	156	CTATGGAGCTTATAGAAATGGTGAGGCAAAACAAGAGTTGTGCACTCACTGTGAT	215
QY	180	CCTTTGCCAACGGATTGACATGGCTGCTTCCTGAGAAAGTTTCTGCTTCAGAGATTGGAC	239
Db	216	CTTTGGCCAAATGATTGACATGGCTTCTTCCTGAAAGTGTTCGAAATCAAAGATTGGAC	275
QY	240	CAGAGCAGTACGGCTTTTGGGCAT	267
Db	276	CTAAGCAATAACAACCATTCGGGAAT	303

Search completed: September 23, 2004, 18:05:45  
Job time : 780 secs

Blank Sheet





```
RESULT 5
US-09-389-681-125/c
; Sequence 125, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C3
; CURRENT APPLICATION NUMBER: US/09/389,681A
; CURRENT FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-389-681-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTGCAACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTCTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTACAAGTTTAAATAAAGGGGCTTCCCC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGAAAAA 1481
DB 61 TTAGAATAGCAAAAAAAGAAAAAAGAAAAAAGAAAAA 23

RESULT 6
US-09-620-405B-125/c
; Sequence 125, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C8
; CURRENT APPLICATION NUMBER: US/09/620,405B
; CURRENT FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-620-405B-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTGCAACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTCTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTACAAGTTTAAATAAAGGGGCTTCCCC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGAAAAA 1481
DB 61 TTAGAATAGCAAAAAAAGAAAAAAGAAAAAAGAAAAA 23

RESULT 7
US-09-339-338-125/c
; Sequence 125, Application US/09339338A
; Patent No. 6573368
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339,338A
; CURRENT FILING DATE: 1999-06-23
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 125
; LENGTH: 199
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(199)
; OTHER INFORMATION: n = A,T,C or G
US-09-339-338-125

Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTGCAACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTCTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTACAAGTTTAAATAAAGGGGCTTCCCC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGAAAAA 1481
DB 61 TTAGAATAGCAAAAAAAGAAAAAAGAAAAAAGAAAAA 23

RESULT 8
US-09-433-826B-125/c
; Sequence 125, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C4
US-09-433-826B-125/c
```

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Query Match      2.7%; Score 40.2; DB 4; Length 199;
Best Local Similarity 52.8%; Pred. No. 0.024;
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGTTTCAGGCTTTTGTAGAAATGTTTATTGCAACAGGTAGAGACATAACC 1382
DB 181 GGAATCGTTTCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTT 122
QY 1383 ATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGCTCTAAAGAAATGGACCGATACGA 1442
DB 121 ATTAGCATTNTGAAAGAGAAAGTAAATGTACAAGTTTAAATAAAGGGGCTTCCCC 62
QY 1443 ATAAACAAGCATCATTAAGATTAAAAAAGAAAAA 1481
DB 61 TTAGAATAGCAAAAAAAGAAAAAAGAAAAAAGAAAAA 23

RESULT 9
US-09-433-826B-125/c
; Sequence 125, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C4
US-09-433-826B-125/c
```

; CURRENT APPLICATION NUMBER: US/09/433,826B  
; CURRENT FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 125  
; LENGTH: 199  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(199)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-433-826B-125

Query Match 2.7%; Score 40.2; DB 4; Length 199;

Best Local Similarity 52.8%; Pred. No. 0.024;  
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGCTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTGTTGATTTATGCTTTTAAAGTATAACAAAGTTTTTT 122  
|||||  
QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAGTTTAAATAAAAGGGGCGCTTCCCC 62  
|||||  
QY 1443 ATAAACAAGCATCTTAAAGTTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 1481  
|||||  
Db 61 TTAGATAGCAAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 23  
|||||

## RESULT 9

US-09-604-287A-125/c  
; Sequence 125, Application US/09604287A  
; Patent No. 6586572

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.470C7

; CURRENT APPLICATION NUMBER: US/09/604,287A

; CURRENT FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 489

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G

US-09-604-287A-125

Query Match 2.7%; Score 40.2; DB 4; Length 199;

Best Local Similarity 52.8%; Pred. No. 0.024;  
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGCTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTGTTGATTTATGCTTTTAAAGTATAACAAAGTTTTTT 122  
|||||  
QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAGTTTAAATAAAAGGGGCGCTTCCCC 62  
|||||  
QY 1443 ATAAACAAGCATCTTAAAGTTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 1481  
|||||

Db 61 TTAGATAGCAAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 23  
|||||

## RESULT 10

US-09-285-480-125/c  
; Sequence 125, Application US/09285480

; Patent No. 6590076

; GENERAL INFORMATION:

; APPLICANT: Yuqiu, Jiang

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

; FILE REFERENCE: 210121.470C1

; CURRENT APPLICATION NUMBER: US/09/285,480

; CURRENT FILING DATE: 1999-04-02

; NUMBER OF SEQ ID NOS: 181

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G

US-09-285-480-125

Query Match 2.7%; Score 40.2; DB 4; Length 199;

Best Local Similarity 52.8%; Pred. No. 0.024;

Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTTGTAGAAATTTGCTTTATTGCAACAGGTAGAGACATAACC 1382  
|||||  
Db 181 GGAATCGTTCTTTTGTGTGTTGATTTATGCTTTTAAAGTATAACAAAGTTTTTT 122  
|||||

QY 1383 ATAGACAGATGATCTGAAGAGATAAGCTTCTATGCTAAAGAAATGGACCGATACGA 1442  
|||||  
Db 121 ATTAGCATTTTGAAGAAGGAAAGTAAATGTACAAGTTTAAATAAAAGGGGCGCTTCCCC 62  
|||||

QY 1443 ATAAACAAGCATCTTAAAGTTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 1481  
|||||

Db 61 TTAGATAGCAAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAAAGGTTAAAAA 23  
|||||

## RESULT 11

US-09-834-759-125/c

; Sequence 125, Application US/09834759

; Patent No. 6680197

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; APPLICANT: Henderson, Robert A.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.470C9

; CURRENT APPLICATION NUMBER: US/09/834,759

; CURRENT FILING DATE: 2001-04-13

; NUMBER OF SEQ ID NOS: 547

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 125

; LENGTH: 199

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)...(199)

; OTHER INFORMATION: n = A,T,C or G

US-09-834-759-125

Query Match 2.7%; Score 40.2; DB 4; Length 199;  
Best Local Similarity 52.8%; Pred. No. 0.024; 75; Indels 0; Gaps 0;  
Matches 84; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

QY 1323 GGAATGGTTTCAGGCTTTGGTTAGAAATGTCTTTATTCGAACAGGTAGAGAACATAACC 1382  
DB 181 GGAATCGTTCTTCTTTGTGTGTTGTTATTTAGTGTCTTTTAACTATAAACACAAAGTTT 122  
QY 1383 ATAGACAGATGTCATCGAGACATAGCTTCTTAAGTCTTAAGAAATGACCGATACGA 1442  
DB 121 ATTACATNTTGAAGAAGAAAGTAAATGTACAAAGTTTATAAFAAGGGGCGCTTCGCC 62  
QY 1443 ATAAACAAAGCATCATTAAGATTAAAAA 1481  
DB 61 TTTAGATAGCAAAAAA 23

## RESULT 12

US-09-489-847-64  
; Sequence 64, Application US/09489847  
; Patent No. 6476195  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al  
; TITLE OF INVENTION: 98 Human Secreted Proteins  
; FILE REFERENCE: PZ031P1  
; CURRENT APPLICATION NUMBER: US/09/489,847  
; CURRENT FILING DATE: 2000-01-24  
; EARLIER APPLICATION NUMBER: PCT/US99/17130  
; EARLIER FILING DATE: 1999-07-29  
; EARLIER APPLICATION NUMBER: 60/094,657  
; EARLIER FILING DATE: 1998-07-30  
; EARLIER APPLICATION NUMBER: 60/095,486  
; EARLIER FILING DATE: 1998-08-05  
; EARLIER APPLICATION NUMBER: 60/096,319  
; EARLIER FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: 60/095,454  
; EARLIER FILING DATE: 1998-08-06  
; EARLIER APPLICATION NUMBER: 60/095,455  
; EARLIER FILING DATE: 1998-08-06  
; NUMBER OF SEQ ID NOS: 376  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 64  
; LENGTH: 1361  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-489-847-64

Query Match 2.7%; Score 39.6; DB 4; Length 1361;  
Best Local Similarity 50.5%; Pred. No. 0.11; 94; Indels 0; Gaps 0;  
Matches 96; Conservative 0; Mismatches 94; Indels 0; Gaps 0;

QY 1294 ATCATCAAGGCTCCTACAGATTTCTTAGGAATGGTTTCAGGCTTTTGTAGAAATGT 1353  
DB 1148 ATATGTAATGCTTAAAGATTTCTTGAACACATTTAGAACCATATCACAGTGTGT 1207  
QY 1354 GTTATTGCAACAGGTAGAGAACATAACCATAGACAGATGTATCTGAAGAGATAAGCTTC 1413  
DB 1208 TTTTGCTTCAGTTGTGAATATAATTTAGAACTCATGGAATATAAACCCATTATATT 1267  
QY 1414 TCTATGTCTAAGAAATGGCCGATAGCAATAAACAAGCATCATTTAAGATTAAAAA 1473  
DB 1268 ATTATATAAAAAA 1327  
QY 1474 AAAAAA 1483  
DB 1328 AAAAAA 1337

## RESULT 13

US-09-601-537-10  
; Sequence 10, Application US/09601537

Patent No. 6582691  
; GENERAL INFORMATION:  
; APPLICANT: Gallert, Karl-Christian  
; APPLICANT: Mullner, Stefan  
; APPLICANT: Huls, Christoph  
; APPLICANT: Bohnisch, Britta  
; TITLE OF INVENTION: Expression Vector for the Production of  
; FILE REFERENCE: 50186/002001  
; CURRENT APPLICATION NUMBER: US/09/601,537  
; CURRENT FILING DATE: 2000-08-02  
; PRIOR APPLICATION NUMBER: PCT/EP99/00829  
; PRIOR FILING DATE: 1999-02-09  
; PRIOR APPLICATION NUMBER: DE 198 05 781.4  
; PRIOR FILING DATE: 1998-02-12  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10  
; LENGTH: 441  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: pl53-NT3  
US-09-601-537-10

Query Match 2.7%; Score 39.4; DB 4; Length 441;  
Best Local Similarity 53.6%; Pred. No. 0.066; 71; Indels 0; Gaps 0;  
Matches 82; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 1331 TTCAGGCTTTTGTAGAAATGTCTTTATTCGAACAGGTAGAGAACATTAACATAGACAG 1390  
DB 281 TTCAGGATTTGGAATTAATTTATTTGTAAACCAAAAAAATCTCCAAAAA 340  
QY 1391 ATGTATCTGAAGAGATGAAGCTTCTCTATGCTTAAGAAATGACCGATACGAATAAACA 1450  
DB 341 AAAAAA 400  
QY 1451 AGCATCATTAAGATTAAAAA 1483  
DB 401 AAAAAA 433

## RESULT 14

US-09-601-537-9  
; Sequence 9, Application US/09601537  
; Patent No. 6582691  
; GENERAL INFORMATION:  
; APPLICANT: Gallert, Karl-Christian  
; APPLICANT: Mullner, Stefan  
; APPLICANT: Huls, Christoph  
; APPLICANT: Bohnisch, Britta  
; TITLE OF INVENTION: Expression Vector for the Production of  
; FILE REFERENCE: 50186/002001  
; CURRENT APPLICATION NUMBER: US/09/601,537  
; CURRENT FILING DATE: 2000-08-02  
; PRIOR APPLICATION NUMBER: PCT/EP99/00829  
; PRIOR FILING DATE: 1999-02-09  
; PRIOR APPLICATION NUMBER: DE 198 05 781.4  
; PRIOR FILING DATE: 1998-02-12  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 4121  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-601-537-9

Query Match 2.7%; Score 39.4; DB 4; Length 4121;  
Best Local Similarity 53.6%; Pred. No. 0.23; 71; Indels 0; Gaps 0;  
Matches 82; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 1331 TTCAGGCTTTTGTAGAAATGTCTTTATTCGAACAGGTAGAGAACATTAACATAGACAG 1390

Db 3961 TTCAGGATTTGGAATATAATTTATTTATTTGTAACAACAAAAAATCTCCAAAAAAA 4020  
Qy 1391 ATGTATCTGAAGAGATAAGCTTCTCTATGTCTAAAGAAATGGACCGATACGAATAAACA 1450  
Db 4021 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 4080  
Qy 1451 AGCATCATTAAGATTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 1483  
Db 4081 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 4113

RESULT 15  
US-09-640-173-18/c  
; Sequence 18, Application US/09640173  
; Patent No. 6613515  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: OVARIAN TUMOR SEQUENCES AND  
; TITLE OF INVENTION: METHODS OF USE THEREFOR  
; FILE REFERENCE: 210121.484C2  
; CURRENT APPLICATION NUMBER: US/09/640,173  
; CURRENT FILING DATE: 2000-08-15  
; NUMBER OF SEQ ID NOS: 196  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 18  
; LENGTH: 396  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(396)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-640-173-18

Query Match 2.6%; Score 39; DB 4; Length 396;  
Best Local Similarity 48.1%; Pred.No. 0.081;  
Matches 78; Conservative 0; Mismatches 84; Indels 0; Gaps 0;  
Qy 1322 GGGAAATGGTTTCAGGCTTTTGTAGAAATGTGTTTATTGCAACAGGTAGAGAACATAAC 1381  
Db 178 GGGAAATGGTTTGTGNTGTCANATNNAGGCTTTTAAAGNAAAAAATAATTTT 119  
Qy 1382 CATAGACAGATGTATCTGAAGAGATAAGCTTCTCTATGTCTAAAGAAATGGACCGATACG 1441  
Db 118 TTTAGCCTTTTNAAAAAAGNAAAGTAAATGNCCTTAAATAAAAGGNCCTTCCC 59  
Qy 1442 AATAAACAAGCATCATTAAGATTAAAAAATAAAAAAATAAAAAAATAAAAAA 1483  
Db 58 CTTTNGANTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 17

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Job time : 134 secs